Made familiar and easy to Young Gentlemen and Ladies
To which is added, a

Compendious System

METAPHYSICS,

OR

ONTOLOGY.

Being the

FIFTH VOLUME

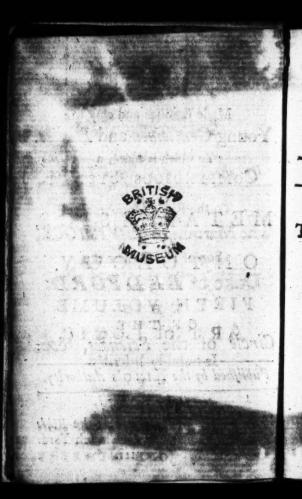
OF THE

Circle of the Sciences, &c.

Published by the KING's Authority.

the Bible

ADEC SEVILLE





By the KING's Royal Licence.

To the Right Honourable

The Marquis of TAVISTOCK,

Son of His GRACE the

Duke of BEDFORD.

THIS

ART of Logic

Is humbly Infcrib'd

BY

His Lordsbip's

most obedient Servant,

JOHN NEWBERY.



By the King's Regal Liebece.

To the Partisonable
The Marquise Son of Hitchace the

Son of HETE RORD.

Duke of BEDFORD.

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ART of Logic

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John Newsery.

PREFACE.

THOUGH it must be confessed,
that Logic is a Subject of too
difficult a Nature for the tender
Capacities of Children, yet we flatter
ourselves that the following little Treatise, wherein the Rudiments of the
Science are laid down in the plainess
Manner possible, may be of some Service to the British Youth, as it will
diffuse a Light over their Understanding, assist their Reasoning Powers, and
lead them on to such Improvements in
Knowledge as are to be expected from
Years of Maturity.

Logic indeed, as formerly taught by the Schoolmen, was of little Use but

to furnish the Tongue with Debate and Controverfy; and therefore many People bave entertain'd such a Prejudice againff it, as to think this useful Art not worthy of their Notice, much less of the Study and Application it requires. But as a Modern Logician (to subsfe excellent Writings we own ourfelves indebted) observes, " True Logic is not " that noify Thing that deals all in " Dispute and Wrangling, to which " former Ages had debased and con-" fined it; yet its Disciples mult " acknowledge also, that they are

" taught to vindicate and defend the " Truth, as well as to fearch it out.

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But

" True Logic doth not require a long " Detail of hard Words to amuse

" Mankind, and to puff up the Mind " with empty Sounds, and a Pride of

" false Learning; yet some Di-" flinctions and Terms of Art are

" necessary to range every Idea in

"its proper Class, and to keep our "Thoughts from Confusion. The "World is now grown so wise as not to suffer this valuable Art to be engross'd by the Schools. In so polite and knowing an Age every "Man of Reason will cover some "Acquaintance with Logic, since it renders its daily Service to Wisdom and Virtue, and to the Affairs of

" common Life, as well as to the "Sciences."

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To enforce this Matter a little farther, let it be considered, that Reason is the Glory of Human Nature, being that peculiar Characteristic subereby swe are distinguished from other Animals, and raised above the brute Part of the Creation. This is a common Gist subich the swife Creator has bestowed upon all Mankind; though all are not favoured with it by Nature in an equal Degree:

But the acquired Improvements of it

in different Men make a much greater Distinction between them than Nature has made. Nay, we may wenture to affirm, (as the judicious Author just quoted observes) that the Improvement of this noble Faculty has "raised the" Learned and the Prudent in the European World almost as much above the Hottentots and other Savages of Africa, as those Savages are by Nature superior to the Birds, the Beasts, and the Fishes."

Now to teach us the right Use of our Reason, or Intellectual Powers, and the Improvement of them in ourselves and others, is the Business and the End of Logic: And it is by a proper Cultivation of our Reason that we are better enabled to distinguish'd Good from Evil, as well as Truth from Falshood; both which Things are of the greatest Concern and Importance, whether we regard our Happiness in this

this Life, or our eternal Happiness bere-

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I believe it will not be disputed, that the Pursuit and Acquisition of Truth is of infinite Concernment to Mankind, By this we become acquainted with the Nature of Things, and their various Relations to each other: By this we discover our Duty to God, and to our Fellow Creatures: By this we arrive at the Knowledge of Natural Religion. and learn to confirm our Faith in Divine Revelation. In a word, our Wifdom, Prudence and Piety, our present Conduct and our future Hope, are all influenced (in Some Degree or other) by the Use of our rational Powers in our Enquiries after Truth.

But perhaps it may be ask'd, Of what Necessity is the Art of Logic? Cannot a Man form his Judgments aright, distinguish Truth from Falshood, conduct himself prudenly, and arrive at a

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State

State of Virtue and Happiness, without understanding all the technical Language and Formality of Rules which Logicians have invented? Yes certainly: It must be acknowledged, that the Share of Common Sense, which Men enjoy as reasonable Beings, generally proves sufficient to conduct them in the ordinary Affairs of Life; but it is a bigber Advancement and a farther Af-Affance of our rational Powers, that is designed by and expected from Artificial Logic: And a little Consideration will convince any one, that it requires some Skill arising from Art and Experience, as well as a natural Strength of Understanding, to carry our Enquiries beyoud the more obvious Generalities of a Subject, to follow it through all the Intricacies and Objections that may arise, and to clear the Consistency of it in all its Parts. So that let a Man's Strength

Strength of Genius be ever fo great, if he refuses to make use of that Assistance which is offer'd him in the Ways of abstruse and close Reasoning, he will infallibly find himself either totally lost, or very much bewilder'd.

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By natural Sagacity a Man frequently perceives that there is something faulty or sophistical in another's Reasoning, but is incapable at the same time of discovering where the Fault lies. In such Circumstances it must be very defirable to bave the Mark pointed out precisely, against which all his Force should be levell'd, to have his Thoughts put into such a regular Train as may enable bim to unravel the Difficulty, apprehend the true State of the Question, and thoroughly examine and weigh its Consequences. Every one, I believe, who makes any Pretensions to good Sense, a ill endeavour to form to himfelf a rational Method of thinking and

and arguing; and when once he has attain'd it, I dare fay he will not repent of the Trouble that it cost him.

We acknowledge farther, that in Discourses upon ordinary Matters we have no occasion to be at the Pains of continually applying a common Standard, or tying ourselves up to the Strictness of Scholastic Forms, in order to perceive the Agreement or Disagreement of Ideas, and thereby distinguish Truth from Falshood: But yet it will be found of no small Service to learn those general Rules, which are applicable, as a Test, to all Reasoning, however varied or disquised by the Advantage of Wit or Eloquence. "Syl-" LOGISM (says a good Writer on this

[&]quot;LOGISM (Says a good Writer on this Subject) is a Measure to us in the

[&]quot;Management and Disposal of our own Thoughts, and in our Rea-

fonings and Discourses to others;

wherein we cannot otherwise avoid Consusion and Disorder, than by considering what the Conclusion is we would prove, by what Mediums we would prove it, and to which Part of the Argument (Major, Minor, or Conclusion) this or that particular Part of our Discourse relates. If our Discourse be not always laid out in the exact Formability of Syllogism, yet we should have a Kind of Syllogistical Plan before us; that so in every Stage of our Discourse we may know whereabouts we are, and what we

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" Syllogism moreover will be a Mea"fure whereby to judge of the Dif"courses of others, pointing out what
is the Conclusion they offer to
"prove, what the Premisses are
"whereby they prove it, and whe"ther

ther fuch Premisses do indeed prove
fuch Conclusion. By reducing it
to Syllogism you see all the Parts
of an Argument in Miniature,
what truly belongs to it, and what
is put in only for Shew, and Pomp,
and Amusement; and every Part
in its proper Place and Order, and
withal what Connexion one Part

" has with another."

As Syllogistical Arguments, so likewife Scholastic Distinctions are in many Cases necessary to prevent Consustan, and therefore we should not entirely reject them, or take Offence at them when rightly applied. The Subtleties of Scholastic Learning have indeed of late been very much decried, and not without Reason; but a Man of thoughtful Disposition, Leisure, and mature Judgment, will always find useful Entertainment among the Writings of the more more ingenious Schoolmen: Where, if he does not always acquiefce in their Determinations, yet he will find and acknowledge "a remarkable Sagacity in canvaffing a Question; and though he will sometimes laugh at the Doubles of their Distinctions, and the Mist of Words which they industriously throw over the plainest Subjects, yet he may from thence

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be apprized how to guard against the same little Subterfuges and Arts

" of Disguise, which, by Misapplication of Language, are every Day

" put in Practice in Matters of Civil

" Commerce and Conversation."

Having said thus much of the Usefulness of the Art of Logic, it remains (in Conformity to the Method observed in the preceding Volumes of this Work) to give some Historical Account of its Origin and Progress in the World.

The first Philosophers were so entirely bent on the Study of Nature, as to bave little Regard to Logical Speculations. In Pythagoras's School there swas no Reasoning but Authority, no Appeal from the Master's Dictates; and though we meet with good Definitions in the Writings of his Followers, yet Logic was then unknown, and its Rules uncultivated. Zeno Eleates was the first who found out the natural Train of Principles and Consequences in a Discourse, which he form'd into a regular Art; so that the Sum of his Logic was to observe the Dependence and Connection that Propositions bean to each other, and accordingly to range them in their natural Order. He made use of Dialogue, introducing tave or more Persons, subo by a Course of Questions and Answers reason'd methodically upon all Subjects; and bence be gave bis mew.

new-invented Art the Name of Dialectica, which Logic retain'd after the Form of Dialogue was laid afide. But Zeno, being a great Master of Subtilty, too much perplex'd and embarras'd this Method; and Protagoras, his Scholar, resin'd upon it, and carried it

farther into Sophistry.

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Euclid of Megara applied bimself to the improving of the Subtilties of Logic, and introduced a more lively and webinnent Manner of Debate; which he carried to such an Extreme, that he was reproached as having possess of Disputing, by teaching them that sophistical Method which Socrates condemn'd. It was this Euclid and his Scholar Eubulides that invented those Sophisms which were afterwards so much celebrated in the Schools, though in reality they have nothing in them but their

their Acuteness, (as the Sorites, the Dilemma, &c.) together with all that Chicane of Dispute which brought Logic into Contempt at Athens, and obliged Socrates to expose and ridicule it, in or-

der to undeceive the People.

Notwithstanding what we have faid of Zeno, Cicero makes Socrates the Author of Logic, which he fays be fetch'd from Heaven for the Benefit of Mankind. In effect, this Philosopher made a System of all the Precepts of the Art, and demonstrated the Use and true Practice of them in bis familiar Conversation. He wrote nothing; but Plato has preserved the Logic of his Mastery which has nothing peculiar as to the disputative Part, of which Socrates bad but a very mean Opinion. Of the Socratic Method of disputing we have given Examples in the following Treatife; but it has been observ'd, that

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that Socrates in bis Reasoning applied himself more to Questions than Answers, because the Character of his Genius was fitter to raise Doubts than to resolve them.

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Till we come to Aristotle, we meet with nothing fix'd and regular in Logic. It was this great Genius that first discover'd the Way of arriving at Science by the Evidence of Demonfiration, and of proceeding to fuch Demonftration, in a geometrical M. thod, by the conclusive Form, the infallible Rule of SYLLOGISM. In the Composition of Syllogisms (be observes) there must be nothing false in the Matter, nothing vicious in the Form; and the Rules he has laid down concerning them have been allow'd by the Learned. to be just and solid, and agreeable to the natural Course of Reason. It is true, the chief Aim and Scope of Aristotle's Logic Logic is not so much to teach Men the Art of true Reasoning, as to enable them to bring false Arguments to a proper Trial and Scrutiny, and to guard against the Sophisms which were then in Vogue, and which he employs himself to detect and defeat.

The Stoics refined more upon Logic than all the other Sects of Philosophers; and feem to have arm'd themschoes with all its Thorns, and commenc'd the most formidable Wranglers of the Schools, to Support their vain and extravagant Notions. To this Purpose they invented new Modes of Syllogism, less natural than those of Aristotle, but more cunning and captious. They pretend, that Chrylippus bimfelf, one of their Sect, wrote no less than three hundred Volumes upon the Art of Logic; but his Refinements, (as Seneca bas observ'd) only tended to break

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break and enervate its masculine Spirit. Thus their Logic became slight and superficial, being little more than a Dispute about Names and their Signification; and this laid the first Foundation of that Philosophy which was revived by the Nominalists many Ages after. However, Aristotle's Works being conceal'd from the Public, the Logic of Zeno remain'd a long time chiefly in Vogue, and was one of the first that was taught at Rome; the Subtleties whereof Plautus has bumourously exposed in his Comedies, and Cicero in many Places of his Works.

Epicurus's Method of Reasoning, who did not approve of the Niceties and Quibbles of the Stoics, was less artificial than that of Zeno, and carried on with greater Simplicity. He knew nothing of the analytical Method of Division and of Argumentation, which

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indeed

indeed render'd him weak and little in Disputes. In fearthing after Truth be proceeded only by the Senses, which be term'd the first and natural Light of Mankind, as Reflection upon the Judgment of Sense was his second. The Simplicity of his Logic was in a good measure owing to the Clearness of his Terms; he being of Opinion, (and Experience shews it to be true) that the common Scurce of Disputes is the Ambiguity of Propositions. Thus he resolv'd all Fallacies and Sophisms by the bare Explication of the Words; concluding, that if Men are not quite flupid, they must needs agree in their Sentiments, when once they understand each other's Meaning. In a Word, a Soundness and Simplicity of Sense, affifted with some natural Reflection, was all the Logic of Epicurus, who

was not very curious about Modes and Formalities.

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When the Writings of Aristotle, which had lain hid for many Ages, were once discover'd, bis Method of Reasoning was generally follow'd, as the most solid and certain, and in its highest Perfection, by the Invention of Syllogism. Galen, who had form'd Some different Notions of Logic, at length acquiesced in that of Aristotle, and contributed much to spread its Reputation. Simplicius, Ammonius, and others among the Greeks; St. Austin, Boethius, Thomas Aquinas, and many more of the Latins, (not to mention the Arabians) fludied Aristotle's Logic as their Pattern and Original. On this Model the Schoolmen form'd their Character, who (to the Shame of Reason) reign'd with too long and too absolute a Sway; but though they fell a 3 into

into a Division of Nominalists and Realists, yet both Parties proceeded upon Aristotle's Principles in their Debates.

Laurentius Valla undertook to reform the Aristotelian Logic, by reducing she Ten Predicaments to Three, and by cutting off the third Figure of Syllogism; but his Enterprize did not fucceed. Ludovicus Vives attempted another Sort of Reformation, (chiefly with respect to the Schoolmen) but with no better Success. And as for Peter Ramus, who laid down the Plan of a new Logic, be bas rather fpoil d than mended what he has borrow'd from Aristotle. Cardan composed a Logic from the Stock of his Predeceffors, which has little valuable in it but Aristotle's geometrical Method.

Smiglesius, a Jesuit, is one of the last that has written on Aristotle's Logic, which he has done with a great

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deal of Justice and Clearnes: But Van Helmont in a Logical Treatife has extravagantly pretended to overthrow the System of Aristotle, without any Ground to Support bis own: Defcartes began a Logic, which he left unfinish'd, and which his Followers have endeavour'd to illustrate and improve. M. Rapin reckons bim the best Notionalist among the Moderns, whatever be delivers being well conceiv'd. and discovering that Depth of Meditation which was his peculiar Excellence. According to the same Critic. " of the modern Treatifes of Logic, " the most accomplish'd in all its " Parts is that which Peter Mounyer, " a Physician of Grenoble, has pub-" lish'd on the Works of Honoratus " Faber the Jefuit. What he has " written on the Art of Syllogifm " and Consequence, which is his main 2 4

" Bufiness, is an Original in its Kind: " No Man has ever carried these " Speculations farther, or has more exhausted the Matter, by reciting the almost infinite Modes and Con-" nections of the Syllogistic Terms." To him therefore, and other Writers of the same Kind, we refer those who are desirous of being acquainted with such Speculations in their utmost Extent. As for our Parts, our Design being calculated for the Instruction of Youth, and to introduce them to an Acquaintance with the Art of Logic as it is now taught amongst us, freed from the Obscurity which cover'd it for many Ages, we have chiefly follow'd the Steps of our learned Countryman Dr. Watts, whose Treatise on this Subject seem'd best fuited to our Purpose, and which bas defervedly met with universal Approbation.

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Before we conclude this Preface, we must say something concerning META-PHYSICS, or ONTOLOGY, a brief Scheme of which we thought no improper Addition to the Art of Logic. The Object of this Science is Being in general; but the greatest Part of those who have handled the Subject seem to have confin'd it to Speculations about Substances purely spiritual, such as the Soul of Man, Angels, and God himself; for which Reason Aristotle terms it Natural Divinity.

This Philosopher seems to have been the first Founder and Inventor of the abstracted Method of Reasoning used in Metaphysics, and the Consideration of immaterial Beings; for his Predecessors in Philosophy deliver'd scarce any Thing that was just and solid on these Subjects. Pythagoras indeed is said to have

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bave learnt the Unity of the Godhead from the Hebrews, when be travel'd into Egypt, and to bave taught it to the Greeks; but be likewise borrow'd all the mysterious and visionary Notions of the Egyptians relating to Spirits and Intelligences, which they Supposed were invested with fine and subtil Bodies. Plato took this Doctrine from Pythagoras, and Zeno afterwards transcribed it from Plato. Apuleius indeed fays, that nobody has spoken better concerning Spirits and Divine Matters, than Plato and his Followers: But Heathen Antiquity affords nothing on this Subject, composed with so much Strength of Reason as Cicero's Books of the Nature of the Gods. The Writings of the later Platonists under the Roman Emperors on the Subject of Metaphyfics are weak and inaccurate: Nor are the Greek Fathers wery exact

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er in in their Discourses on Angels and Spiris, on account of the false Notions which many of them brought out of Plato's School. However, the Being of a God, the Immortality of the Soul, the Existence of good and evil Angels, and other important Truths of Religion, have been so fully reveald, and placed in so clear a Light, under the Christian Institution, as leaves no Room to entertain a Doubt concerning them.—But we are rambling a little from what relates to our present Purpose, and it is Time to return.

Many and large Volumes have been written on the Subject of Metaphyfics; and a whole Tribe of Commentators have employ'd their Pens upon Aristotle's Metaphysics in particular, which were taught and admired in the Schools for many Ages, though his

most

most zealous Defenders allow them to be the most imperfect of all his Works. But this Science (as well as Logic) was brought into Contempt by the wast Multitude of rude and barbarous Terms, of obscure and perplex'd Definitions, of dry and barren Conceptions and Reasonings, with which the the Schoolmen had embarrass'd it, but from which it has been rescued by modern Writers on the Subject, and therefore should not be entirely thrown aside as of no manner of Use or Signification. Our Ontology is only a short Sketch of the Science; but we thought our Logic would not be compleat without it, as they are nearly related and even connected with each other. To induce the Reader to the Study of Ontology, we shall give him the Sentiments of Dr. Watts on this Head,

Head, with which we shall conclude our Preface.

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" In order (fays be) to make due " Enquiries into all the Particulars " which go towards the compleat and " comprehensive Idea of any Being, " the Science of Ontology is exceed-" ing necessary. This is what was " wont to be call'd the first Part of " Metaphysics in the Peripatetic " Schools. It treats of Being in its " most general Nature, and of allits " Affections and Relations. I confess " the old Popish Schoolmen have min-" gled a Number of useles Subtle-" ties with this Science; they have " exhaufted their own Spirits, and " the Spirits of their Readers, in " many laborious and intricate " Trifles, and some of their Wri-" tings have been fruitful of Names

" without

" without Ideas, which have done " much Injury to the facred Study of " Divinity. Upon this Account many of the Moderns have most un-" justly abandon'd the whole Science " at once, and thrown abundance of " Contempt and Raillery upon the " very Name of Metaphyfics: But this " Contempt and Cenfure is very unreasonable; for this Science, sepa-" rated from some Aristotelian Fooleries and scholastic Subtleties, is fo necessary to a distinct Conception, " folid Judgment, and just Reason. ing on many Subjects, that sometimes it is introduced as a Part of " Logic, and not without Reason. " And those, who utterly despise and ridicule it, either betray their own " Ignorance, or will be supposed to " make their Wit and Banter a Re-" fuge

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"fuge and Excuse for their own "Laziness. Yet thus much I would "add, that the later Writers of On- tology are generally the best on this Account, because they have left out much of the ancient Jargon."

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LOGIC.

INTRODUCTION.

Of Logic, and its Parts.

A. It is the Art of Thinking and Reasoning a right Use of the Faculties of the Mind in our Enquiries after Truth, and the Communication of it to others.

2. Whence is the Term derived?
A. From the Greek Word Logos,

Discourfe.

Q Into how many Parts is Logic

A. Into four, because so many Faculties or Operations of the Mind are more immediately concern'd therein.

2. Which are those?

A. Perception, Judgment, Reasoning, and Disposition; each of which shall be treated of in Order.

PART

PART I.

Of PERCEPTION.

A. Perception, Conception, or Apprehension, is that AA (or rather Passion) of the Mind whereby it becomes conscious of any thing, or forms an Idea of the Objects set before it.

2. What is treated of in this first Part of Logic, which is grounded on

Perception ?

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A. The first Part of Logic treats of all Sorts of Ideas.

CHAP. I.

Of the Nature of IDEAS in general.

2. WHAT is an Idea?
A. A Notion, Image, or Representation of any thing, as conceived by the Mind .- Thus, for Inflance, if we think of a Horse, a Pigeon, or any other Object; the Notion or Image thereof, which is form'd in the Mind, is call'd the Idea of a Horse, a Pigeon, &c.

2. Whence is the Term Idea de-

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rived?

A. From the Greek Word eido, to fee; because the Mind perceives and fees, as it were, within itself the Object about which it is employed.

2. How do we come by our Ideas?

A. The Mind gains all its Ideas either from Sensation or Reflection; that is, either by means of the Senses, OF

or by reflecting on its own Operations, and observing what passes within itself. Thus, for Instance, by Seeing we obtain the Ideas of Colours; by Hearing we have those of Sounds; by Tassing we get those of Bitter, Sweet, Sour, &c. And from the latter Source, i.e. from turning our Thoughts inward upon the Actions of our own Souls, arise the Ideas of Assent, Dissent, Judging, Reason, Understanding, Will, &c. But of the Origin of our Ideas we shall say more hereaster.

CHAP. II.

Of the OBJECTS of Perception.

2. WHAT is an Objett of Per-

A. It is that which is represented in the Idea; that which is the Archetype

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or Pattern, according to which the Idea is form'd

Q. Have these Objects no other

A. Yes; all Objects of our Ideas are call'd Themes, whether they are Entities or Non-entities, that is, Beings or Not-beings; for Non-existence may be proposed to our Minds, as well as real Existence or Being.

Q. How is Being usually confi-

der'd ?

A. Being is generally confider'd under the Distinction of Substance and Mode.

2. What is a SUBSTANCE?

A. It is a Being which subsists by itself; that is, has an Existence of its own, a separate Existence, independent of any other created Being.

2. What do you mean by this In-

dependence?

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A. All that I mean is, that a Substance cannot be annihilated, or utterly destroy'd and reduced to Nothing, by any Power inferior to that of its Creator; though its particular Form, Nature, and Properties may be alter'd and deftroy'd by many inferior Causes. Thus, for Example, Wood may be turn'd into Fire, Smoke, and Afhes; a House into Rubbish, and Water into Ice and Vapour; but the Substance or Matter of which they are made still remains, though the Forms and Shapes of it are very much alter'd. Let a Substance undergo as many Changes as you please, yet still it is a Substance; and in this Sense it depends upon God alone for its Existence.

2. How many Kinds of Substances

are there?

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A. They may all be comprehended in the general Division of spiritual and corporeal; that is, what we com
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monly understand by the Words Body and Spirit.

2. But are Substances no otherwise

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diftinguished?

A. Yes; they are distinguish'd into Simple and Compound, Pure and Mix'd, Animate and Inanimate.

2. What are Simple Substances?

A. Those which have no Mixture or Composition in them of different Natures. Such are either Spirits, and in this Sense God is call'd a Simple Being; or the Elements of natural Bodies, that is, those first Principles or Corpuscles of which all Bodies do originally consist.

2. What is meant by Compound

Substances?

A. Such as are made up of two or more Simple ones. So every thing in the whole material Creation, that can by the Art of Man be refolved into into different Substances, is a Com-

2. Are the Words Simple and Com-

pound used in any other Sense?

A. Yes; in a vulgar Sense a Needle is call'd a Simple Body, being made only of Steel; but a Sword or a Knife is a Compound, because its Haft or Handle is made of Materials different from the Blade.

2. What do you mean by Pure

and Mix'd Substances?

A. These Terms, when applied to Bodies, are somewhat akin to Simple and Compound. So Gold is said to be pure, if it has no Alloy, no Mixture of other Metal in it: But if any other Mineral or Metal be mingled with it, it is call'd a mix'd Body or Substance.

2. What is understood by Animate

Substances?

A. Such as are endued with Life and Sense; as all Sorts of Animals, viz.

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Viz. Men, Beafts, Birds, Fishes, &c.— Vegetables are also reckon'd amongst animated Substances, having within them a Principle of Life (as it may be call'd) whereby they grow, increase, and produce their Species, though void of Sensation. Such are Trees, Herbs, Plants, &c.

2. What is meant by Inanimale

Substances?

A. Those which have no Life nor Sense; as Earth, Air, Water, &c.

2. I am satisfied as to Substance; but what do you understand by a

A. A Mode (or Manner of Being) is that which cannot subsist in and by itself, as a Substance does, but belongs to and subsists by the Help of some Substance; which, for that Reason, is call'd its Subject. — In other Words, A Mode has no Existence of its own,

but depends on some Substance for its very Being.

2. In what manner does Mode de-

pend on Substance?

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A. Not as a Being depends on its Cause, (for so Substances themselves depend on God their Creator) but a Mode must necessarily exist in some Substance, or it cannot exist at all.—Thus Shape is a Mode of Body, and cannot subsist without it; as Knowledge is a Mode of the Mind, on which it is equally dependent: For were there no Body or Maeter, there could be no Shape; and were there no Mind or Spirit, there could be no such thing as Knowledge.

2. Can't you give one familiar Infance, to explain the Difference be-

tween Mode and Substance?

A. Yes; if we reflect on a round Piece of Wax, it is plain the Wax is a Thing which may subfift without that

that Roundness: Make it square, triangular, alter its Figure never so much, yet still it is Wax; and for this Reason we call it a Substance. On the contrary, the Roundness is so dependent on the Wax, that it cannot subsist without it, or some other Substance; for we cannot conceive of Roundness distinct and separate from a round Body. And this is what we denominate a Mode.

Q. Are Modes call'd by no other

A. Yes; sometimes they are call'd Qualities, Attributes, Properties, and Accidents.

Q. Have not Modes their several Divisions, as well as Substances?

A. Yes; they are diffinguish'd into various Kinds, as Essential and Accidental, Absolute and Relative, Intrinsic and Extrinsic, and several others.

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A. That which belongs to the very Nature or Essence of its Subject; as Solidity in Matter, Thinking in a Spirit, &c. — Of essential Modes some are call'd primary, as Roundness in a Globe; others secondary, as Volubility or Aptness to roll, which is consequent upon the some. The first is call'd the Difference, being the distinguishing Attribute of a Globe; and the latter is term'd a Property.

2. What is an Accidental Mode?

A. That which is not necessary to the Being of a Thing, but may be wanting, and yet the Nature of the Subject remain the same; as Smoothness or Roughness, Blackness or Whiteness, Mestion or Rest, in a Globe or Bowl; for these may be all changed, and yet the Body remain a Globe still. Such Modes as these (and no others) are properly call'd Accidents of Bodies.

2. What

Q. What is meant by Absolute and Relative Modes?

A. An absolute Mode is that which belongs to its Subject, without respect to any other Being whatfoever: But a relative Mode arises from the Comparison of one Body with another. Thus Motion is an absolute Mode of a Body; for I can consider a Body as in Motion, without comparing it to any thing else in the whole Creation: But Swiftness and Slowness are relative Modes, the Ideas whereof are produced by comparing the Motion of one Body with that of others; as the Motion of a Bowl on a Bowling-Green is fwift, when compared with a Snail; and it is flow, when compared with a Cannon-Ball. - So also Size is an absolute Mode of a Body, but Greatness and Smallness are relative Ideas.

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Q. What is an Intrinsic Mode?

A. Such as we conceive to be in the Subject or Subflance itself; as when we say a Globe is round, in Motion, or at Rest; or when we call a Man tall, or learned.

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2. What is an Extrinsic Mode?

A. That which is not in the Subject itself, but derived from something external or foreign to it; as when we say a Thing is desired, loved, bated, &c. So if I say, That Post stands within a Yard of the Wall, I express a Mode or Manner of Being which is not in the Post itself, but which it derives from its Situation with respect to the Wall.

Q. Which are the other Divisions of Modes?

A. The Division of Modes into Inberent or Adherent, Proper or Improper, is so much akin to the last, that it does not deserve to be explained by

2. Are there any others that are

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worth taking notice of?

A. Yes; it is proper to observe, that Action and Passion are reckon'd among the Modes of Being. By Paffion is here meant suffering or bearing Action; and what fuffers is call'd the Patient, as that which alls is term'd the Agent. - Thus, when a Smith with a Hammer strikes a Piece of Iron, the Hammer and Smith are both Agents; and the Iron is the Patient, because it suffers or receives the Blows Moa of the Hammer, as directed by the Hand of the Workman.

2. Have you any more to add?

A. Yes; Modes are farther divided into Natural and Supernatural, Civil and Moral .- If I fay, The Apore A file Paul was a Man of low Stature, but be was inspired; here his Lowness dan

of Stature is a natural Mode, and his being inspired is supernatural. - Thus again, if I say that such a one is an honest Man and a free Citizen; here are two Modes, the one arising from his Honefly, which is a moral Confideration; the other from his being free of a City, which is a civil Privilege.

2. Is this all you have to fay con-

cerning Modes?

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A. No; I would have you observe, that though the greatest Part of Modes belong to Substances, yet there are some which are only Modes of other Modes: For though they subsist in and by a Substance as the original Sulject of them, they are properly and dieftly attributed to some Mode of that ubstance. Thus Motion is the Mod? f a Body, but Savifeness and Slowness te Modes of Motion: And if I say a sweet an walks gracefully, it is plain that Motion

Motion is his Mode at that Time; but Walking is a particular Mode or Manner of Motion, and gracefully is still a

farther Mode of Walking.

2. You have given me a large Account of Being or Substance, and its various Kinds of Modes; but how do you explain the Nature of Not-being, or Non-entity?

A. Not-being will fall under a twofold Confideration, as it relates either

to Mode or Substance.

2. How is it to be consider'd with

respect to Substance?

A. We may consider Non-entity as excluding all Substance, and consequently all Modes; and this is call'd pure Nibility, or Notbing.

2. How is it consider'd with rela-

tion to Modes?

A. When there is a Non-entity of Modes only, it is consider'd either as a mere Negation, or as a Privation.

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Q. What is meant by these Terms? A. By Negation we mean the Absence of that which does not naturally belong to the Subject; as the Want of Sight in a Stone, or of Learning in a Fisherman: But the Want of Sight in a Man, to whom it naturally belongs, or of Learning in a Physician or a Divine, who ought not to be without it, is call'd a Privation.—So the Sinfulness of any human Action is said to be a Privation, as it consists in a Want of Conformity to the Law of God.

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CHAP. III.

Of the several Sorts of IDEAS.

HOW many Kinds of Ideas

A. Ideas may be confider'd according to their Original, their Nature,

their Objects, and their Qualities: And this fourfold Division will easily comprise them all.

2. How are we to consider them with respect to their ORIGINAL?

A. It has been the Subject of a great Controverfy, Whether any of our Ideas be innate or no, that is, born with us, and naturally belonging to our Minds. This is positively afferted by some, but utterly denied by Mr. Locke, who (in my Opinion) has sufficiently shewn, that all our Ideas are derived from Sensation and Respection; of which I have said something already.—But, without entring into this Debate, I think our Ideas, with regard to their Original, may be divided into three Sorts, viz. Sensible, Spiritual, and Abstracted.

2. What do you mean by Senfible

Ideas ?

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A. By fensible or corporeal Ideas I mean those which are derived originally from our Senses: Such are the Ideas of Colours, Sounds, Tastes, Shapes, Motions, &c.

2. What do you understand by

Spiritual Ideas?

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A. The Word spiritual is here used in a natural, not in a religious Sense, and signifies the same as mental or intellectual. These Ideas we gain by reflecting on the Nature and Actions of our own Souls, by meditating, contemplating, and observing what passes within ourselves. Such are the Ideas of Thought, Knowledge, Judgment, Reason, Love, Fear, Hope, &c.

2. What are Abstracted Ideas?

A. These are framed by that Operation of the Mind which we usually call Abstraction, whereby we separate some Parts of an Idea from other Parts of it, or consider a Thing simply in it-

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felf, without respect to the Subject wherein it resides .- Thus, if we confider Magnitude or Humanity in themfelves, or without being attached to any particular Body or Person, these are call'd abstratted Ideas. Whiteness is an abstracted Idea, when consider'd in general, and not as residing in Chalk, Snow, Milk, or any particular Subject whatfoever. Of the fame Nature are our Ideas of Caufe, Effed, Likeness, Unlikeness, Identity, Contrariety, and innumerable others .- Some indeed have contested the Reality of any fuch Ideas as those we are speaking of; but to me the Distinction feems to be fufficiently warranted: However, I am apt to think, that apon a firich Examination even our most abstracted Ideas will be found to owe their Original to Senfation or Re-Aection.

2. How

2. How are Ideas distinguish'd with regard to their NATURE?

A. Into Simple and Complex, Com-

pound and Collective.

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Q. What is a Simple Idea?

A. It is one uniform Idea, which the Mind cannot distinguish into two or more; such as the Idea of Cold, Heat, Red, Blue, Bitter, Sweet, Motion, Rest, Thought, Will, &c. for in these, and others of the like Nature, our most subtil Penetration cannot discover any Parts or Plurality.

2. What is a Complex Idea?

A. One that is framed by joining two or more simple Ideas together; as those of a Square, a Triangle, a Man, a Horse, a Tree, &c. which, though often consider'd as single and distinct Things, yet, as they are evidently composed of several Parts, may be divided by the Mind into several Ideas.

Q. What is a Compound Idea?

A. That which contains several Ideas of a different Kind, whether simple or complex. Such is the Idea of Man, as compounded of Body and Spirit; of an Electuary, or other Medicine, compounded of different Ingredients; and of Harmony, which is made up of different Sounds united.

2. What is a Collective Idea?

A. That which joins together many Ideas of the fame Kind, and confiders them in one View. Such is the Idea of an Army, which is a Collection of Men; of a Town, which is a Collection of Houses; of a Nosegay, which is a Collection of Flowers; of a Grove, which is a Collection of Trees, &c.—But this Distinction between compound and collective Ideas is not accurately observed, the former Epithet being frequently used instead of the latter.

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2. How are Ideas diffinguish'd ac-

cording to their OBJECTS?

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A. Into Particular and Universal, Real and Imaginary.

2. What is a Particular Idea?

A. That which represents one Object only; and this either indeterminately, as when we say some Man, any Man, one Woman, another Woman, some Horse, another City, &c. or else in a determinate Manner, as William the Conqueror, this Field, that River, the City of London, &c.—These Ideas, representing one particular determinate Thing, are also call'd Singular Ideas, whether they be simple, complex, or compound: And the Object of a particular Idea, as well as the Idea itself, is sometimes term'd an Individual.

Q. What is an Universal Idea?

A. That which represents a common Nature agreeing to many particular cular Things. Thus a Man, a Tru, a Horse, are call'd universal Ideas, because they agree with all Men, Trees, and Horses.

Q. Are not universal Ideas distin-

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guished into two Sorts?

A. Yes; into General and Special, -A general Idea, or Genus, is one common Nature which includes several others. Thus Animal is a Genus, becaufe it includes Man, Horfe, Elephant, Fly, &c. which are also common Natures: And Bird is a Genus, as comprehending Eagle, Crow, Sparrow, Lark, &c .- A Special Idea, or Species, is one common Nature agreeing to feveral Individuals. Thus Man is a Species, as agreeing to William, Peter, John, &c. and City is a Species, as agreeing to London, Paris, Constantinople, &c. - Hence it is easy to obferve, that the same Idea may be sometimes a Genus, and sometimes a SpeSpecies; for Bird is a Genus if compared with Engle, Crow, &c. but a Species with respect to Animal; and Animal is a Species with respect to Substance.

2. What is meant by Real Ideas?

A. They are such as have real Objects, which either do or may exist, according to the present State and Nature of Things; of which it is needless to give any Examples.

2. What is meant by Imaginary

Ideas ?

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A. They are Ideas of Objects which never did nor ever will exist, according to the present Course of Nature. Such are those of a Flying Horse, a Satyr, a Bee as big as an Elephant, &c. These Ideas are also call'd fantastical or chimerical.

2. How are Ideas distinguish'd with respect to their QUALITIES?

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A. Into Clear or Diffine, and Obficure or Confused; into Vulgar and Learned; into Perfect and Impersed; and into True and False.

Q. What is a Clear or Distinct

Idea?

A. That which fully represents the Object to the Mind, so as plainly to distinguish it from every other Object.

2. What is an Obscure or Confused

Idea?

A. That which represents the Object either faintly, or so confounded and mingled with others, that it does not appear plain and distinct to the Mind. Thus when we view the Rainbow, we have a clear and distinct Idea of the Red, the Blue, and the Green, in the Middle of their several Arches; but the Borders of those Colours so run into one another, that the Eye cannot well distinguish them, and therefore

therefore their Ideas are obscure and confused.

2. What is meant by Vulgar and

Learned Ideas?

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A. Vulgar Ideas represent Objects according to their most obvious and sensible Appearances: But Learned Ideas are framed by considering the Nature, Properties, Causes, and Effects of Things. Thus it is a vulgar Idea when we conceive the Rainbow to be a large Arch in the Clouds, made up of several Colours; but when a Philosopher considers it as caused by the various Reslexions and Refractions of the Sun beams in Drops of salling Rain, this is a learned Idea.

Q. What is the Meaning of Per-

feet and Imperfett Ideas?

A. Perfect or Adequate Ideas are such as represent the Whole of the Objects to which they are referr'd. Thus all our simple Ideas, such as Sweet,

Saveet, Bitter, Black, White, &c. may be call'd perfect, because they are without Parts: And several of our complex Ideas are also perfect, as those of a Square or Triangle, all the Parts whereof are evident, and the Mind comprehends them compleatly.—Imperfect or Inadequate Ideas are but a partial or incomplete Representation of their Objects. Thus we have only an imperfect Idea of a Figure of a thousand Sides, of the Powers of the Loadstone, or of Insinity, which is ever growing, and can never be compleated.

Q. What is meant by True and

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Falle Ideas?

A. Ideas are true when they are conformable to the Objects, and represent them as they really are; otherwise they are false: As when every thing appears yellow to a Man it the

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CHAP. IV.

Of Words and Terms, whereby our Ideas are express'd.

QY OU have shewn how we acquire our Ideas, and have numerated their various Kinds; but how do we convey them to each other?

A. By means of certain Sounds, or witten Marks, which we call Words; that is, by the Use of Speech or Language. But as Words are the Medium whereby we mutually receive and communicate our Knowledge, so they are often the Sources of Mistake and arror.

2. How do Words lead us into

A. Our

A. Our Mistakes are chiefly owing to the following Caufes: 1. Because there is no natural Connexion or Relation between Words and the Ideas they are defign'd to express 2. Because different simple Ideas are often express'd by the same Word; as the Word fweet (for Instance) is applied to the Objects of Tasting, Smelling, and Hearing. 3. Because very complex Ideas are frequently express'd by fingle Words, which can never diffinctly manifest all their Parts. And hence it happens, that one Man includes more or less in his Idea than another does, while he affixes the fame Word to it; which occasions Debates and Confusion. 4. Because many Words are used in a Sense entirely different from what they had in the Language whence they are derived; as the Word Spirit originally fignified Air, or Breath, which has now quite an-

other

other Signification. 5. Because several Things are often denoted by one and the same Name; as Shore signifies the Sea-Coast, or a Prop to support a Building. — From these Considerations it appears, that to prevent our being led into Error whilst we are pursuing after Truth, it is necessary to regard well the Use and Meaning of Words and Terms, and to be acquainted with their various Kinds.

2. Into how many Kinds are

Words and Terms divided?

A. Logicians divide them into Positive and Negative, Simple and Complex, Common and Proper, Abstract and Contree, Univocal and Equivocal.

2. Which are Positive and which

Negative Terms?

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A. Positive Terms have an affirmative Sense, and fignify some positive like; as Art, Prudence, Regular, Finit, Pleasant, &c. — Negative Terms
D

are quite the Reverse of the positive ones, having a denying Syllable or Particle join'd to them, either at the Beginning or End of the Word; as Artless, Imprudence, Irregular, Infinite, Unpleasant, &c. - But such is the Imperfection of Language, that some positive Terms are made to signify negative Ideas, and fome negative Term imply positive Ideas; so that we cannot certainly know whether an Idea is positive or negative by the Word that is used to express it. - N. B. In our Language two negative Terms are equal to one positive; as not immorta fignifies mortal.

2. What is meant by Simple and

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Complex Terms ?

A. A simple Term is one Word; complex Term is when more Words at used to fignify one Thing. Thus, it Founder of Rome is a complex Term but the Words excite the Idea of a

Man only, viz. Romalus. On the other hand, some Terms are complex in Sense, but not in Words; as a Family, an Army, a Forest: And so Religion, Charity, Knawery, Loyalty, and many more, are simple Terms, but include a Variety of Ideas. Other Terms are complex both in Words and Sense; as a sharp Knise, a saveet Apple, &c. which excite an Idea not only of the Things themselves, but also of their Qualities.

2 What is the Meaning of Com-

mon and Proper Words?

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A: Common Words or Names (which are also call'd Appellatives) are such as stand for universal Ideas, or a whole Rank of Beings, whether general or special. Thus Man, Bird, Fish, City, River, Mountain, are common Names; and so are Sparrow, Rawen, Salmon, Lobster; for they all agree to many Individuals, and some of them to

many Species: But Virgil, London, the Thames, Vefuvius, are proper Names, because they belong to one particular Man, City, River, and Mountain. - Here we may observe, that a proper Name may in some Sonse become common; as Cafar was the proper Name of Julius the first Roman Emperor, and became the common Name of the fucceeding Emperors. So also a common Name is sometimes used as a proper one; as when we say the King, meaning King George. And indeed any common Name is made proper by the Addition of fome Term of a particular and determinate Meaning; as this House, that Garden, the prefent Emperor, &c.

2. What is meant by Abstract and

Concrete Terms?

A. Abfrad Terms are those which express some Mode or Quality, confider'd

der'd separately, and without any Regard to its Subject; as Wisdom, Piety, Hardness, Whiteness, Happiness.—Concrete Terms are those which signify some Quality, and at the same Time express or imply some Subject to which it belongs; as wise, pious, bard, which it belongs; as wise, pious, bard, white, bappy: But they are not always what Grammarians call Adjectives; for Slave, Hypocrite, Philosopher, and many other Concretes are Substantives, as well as Slavery, Hypocrify, and Philosophy, which are abstract Terms that belong to them.

2. What is meant by Univocal and

Equivocal Terms?

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A. Universal Terms are such as fignify but one Idea, or at least but one Sort of Thing; as Book, Fift, House, Gold, Silver, and all other Words, the bare Mention whereof excites a certain fix'd Idea, so that we have not the least Doubt about

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their Meaning .- Equivocal Terms are those which fignify two or more different Ideas, or different Sorts of Objects. Thus Foot is an equivocal Word, as fignifying the Foot of an Animal, or a Measure of twelve Inches: Post is equivocal, being used for a Piece of Timber, or a Messenger who carries Letters. So Grace, Church, Bitter, Sweet, Sharp, and a Multitude of others, are equivocal or ambiguous, as fignifying several different Things; and the Use of such Words, with a Defign to puzzle or deceive, is call'd Equivocation. These ambiguous Terms, which have several Meanings, are also call'd Homonymous; as different Words, fignifying the same Thing, are call'd Synonymous.

2. Are there not various Kinds of

equivocal Words?

A. Yes, fo many that it would be tedious to enumerate them all; but fome

fome of the most remarkable and useful Distinctions among them are those which follow. 1. Some Words are equivocal in Sound, but not in Writing; as the Rein of a Bridle, the Reign of a King, and Rain that falls from the Clouds: Others in Writing, but not in Sound; as Bowl a Ball, and Bowl a Vessel, are written the same Way, but pronounced differently: Others, which are most properly call'd equiwocal, are those that are written and prononnced alike, but have different Senses; as Post and Foot abovemention'd. 2. Words are equivocal in respect to the Extent of their Meaning, which are sometimes taken in a large and general Sense, and sometimes in a Sense more particular and refrain'd. Thus, firictly speaking, Holland is but one of the United Provinces; though in a large Sense it in-D 4 cludes cludes all the Seven. 3. Words are equivocal by being fometimes used in a literal, and sometimes in a figurative Sense; as when Man is said to repent or be angry, it is understood literally; but when spoken of God, the Expressions are figurative. 4. Some are equivocal on account of a common and scientific Meaning; as Passion vulgarly signifies Anger, but philosophically the receiving any Assion impressed.—These are the principal Kinds of equivocal or ambiguous Words.

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CHAP. V.

Rules relating to our Conceptions of Things; with Directions for DEFI-NITION, DIVISION, and DIS-TRIBUTION.

2. B Y what Rules are we to guide and regulate our Conceptions?

A. I. Conceive of Things clearly and distinctly, as they are in their own Natures. 2. Conceive of them compleatly, in all their Parts. 3. Conceive of them comprehensively, with regard to their Properties and Relations. 4. Conceive of Things extensively, in all their Kinds. 5. Conceive of Things orderly, or in a proper Method.

T. What is necessary to be obferv'd with respect to the FIRST

Rule?

A. In

A. In all Discourse or Argument proper Definitions are necessary, that every thing may be clearly and diffinally understood.

Q. What is meant by DEFINI-

TION ?

A. Definition is of two Kinds; one of Names or Words, the other of Things.

2. What is the Definition of a

NAME?

A. It is the explaining and determining precisely in what Sense we use a Word, or what Object we mean by it; which may be done in any Manner, so as to convey our Meaning sufficiently to another Person.

2. What Directions are proper to be observ'd in the Definition of

Names?

A. Principally the following. 1. Aword making use of mere Words, which have no Ideas belonging to them, or th re:

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no fettled and determinate Meaning. For what fignifies talking of Fate, Fortune, Perfection, Instinct, &c. without we have some certain Idea first affix'd to these Words? Do not suppose the Nature of Things to be always as different as their Names. For the Words Herb, Sallad, Weed, though they are different Names, are not really three different Species of Beings. 3. Do not think the Nature of two Things the same because they have the fame Name. Thus Heat which we feel by being near the Fire, and the Cause of that Sensation in the Fire tielf, are very different, though the ame Name is applied to both. 4. Use o ambiguous Words in your Definitions; for this may make your Candour and Ingenuity suspected. 5. Define your Words in the same Sense in which Mankind uses them, as near as ofible; and in your Discourse keep close

close to your first Definitions, unless you give proper Notice of the Change.

2. What is the Definition of a

THING?

A. An Explanation of its Nature, including something which is common to it with other Things, and something that is peculiar to the Thing defin'd. Thus, if I would give a Definition of Wine, I say it is Juice press'd from Grapes.

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2. How is a Definition of any

thing to be form'd?

A. By considering what is the mearest Genus or general Nature of the Thing to be defin'd, and then what is its primary Attribute or Property wherein it differs from all other Things that are most like it. Thus, in forming the above Definition, tho Wine is a Substance, I do not make use of that Term, because it is a very remote Genus; nor do I call it

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a Liquid, because that is still too remote; but I fay it is a Juice, because that is its nearest general Nature, tho' common to it with many other Things. Having gone thus far, I am to consider what is its primary Attribute wherein its specific Difference consists; that is, wherein it differs from all other Juices. Now if I should fay, it is the Juice of a Fruit, this Difference would be too general, for it would not diffinguish it from Cyder, Perry, &c. which are Juices of Fruits also: But when I say, it is a Juice press'd from Grapes, this expresfes its special Nature, which distinguishes it from all others.-Therefore the general and special Nature join'd together, or (as Logicians call them) the Genus and the Difference, make up a Definition.

2. Which are the chief Rules of a

good Definition?

A. 1.

A. 1. That it be adequate or universal; that is, it must agree to all the particular Species included under the Idea of the Thing defined. Thus, the Juice of the Grape agrees to all Wines, (properly fo call'd) whether Red, White, Spanish, French, &c. 2. It must be peculiar to the Thing defin'd, and agree to that alone. So the Juice of the Grape agrees to no other Being but Wine. 3. It ought to be clear and plain, and confequently free from all ambiguous Words. 4. It should be short, but not so as to leave it obscure; and indeed the Difference of Things cannot always be expres'd in a few Words, as confifting of feveral Attributes or Ideas. 5 A Definition of a Thing must not be express'd in mere synonymous Words; for that would not explain its Nature, and be no better than a Definition of the Name.

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2. Is every Thing capable of be-

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A. No; it is very difficult to define fome Things accurately, and others cannot be defin'd at all. Where the Essences of Things approach near to each other, so that their Limits cannot well be adjusted, it is difficult to define them; because we cannot tell under what Species to rank them, or how to determine their specific Difference. It is hard (for Instance) to define a Batt, which is between a Bird and a Beaft; or a Barge, which is between a Boat and a Ship.—Being and Not-Being, having no superior Genus, can never be defin'd; neither can Individuals, because either they have no effential Differences from other Individuals, or their Differences are not known to us; and therefore we can only describe them by their particular Circumstances. Lastly, we know

know to little of the Effence of the various Kinds of natural Beings or Subflances, that our Definitions of them are only an Enumeration of their chief Parts or Properties, which best explain and diffinguish them from other Things according to our Observation. Thus we should define Silver to be a white bard Metal, the finest and most duable next to Gold, &c. A Primrofe is a sellowift Flower confisting of several small Leaves of such a particular Shape, &c. But this Sort of Definition is call'd imperfect, or a Defiripsion; the perfect Definition being compos'd of the specific Difference added to the general Nature or Genus, as above observ'd.

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Q. How do you explain your Second Rule, relating to a compleat the Conception of Things?

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to pieces, and confider all their Parts feparately. This Rule therefore only refers to complex Ideas, for fimple Ideas have no Parts. Now all Parts imply fome Whole to which they belong; and our whole Ideas may be diftinguish'd into two Kinds. 1. There is a Mathematical or Integral Whole, which is when all the Parts are diflind from each other, and may fubfift apart. So the Head, Limbs, and Trunk are the integral Parts of a human Body: Units are the integral rip-Parts of large Numbers: And the om- Spring, Wheels, Balance, Dial-Plate, ded &c. are the integral Parts of a Watch. as a- An Enumeration of these Parts of an idea is what Logicians call Divi-SE- SION; and when any of the Parts apleat are still farther divided, it is call'd a ubdivision. 2. There is a Logical or com- inversal Whole, the Parts whereof were all the particular Ideas to which

the universal Nature extends. So a Genus is a Whole, as Animal; and the several species are its Parts, as Man, Beast, Bird, &c. A Species is likewise a Whole, as Horse; and the Individuals, as Trot, Ball, Dobbin, &c. are the Parts. A proper Enumeration of these Parts of an Idea is call'd DISTRIBUTION.

2. Which are the Rules relating

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to Division?

A. I. Each Part taken separately must be less than the Whole, but all together must be exactly equal to it. To divide a Tree therefore into the Trust and the Leaves would be an impersect Division, since the Whole is not compleat without the Root and the Branches. 2. In all Divisions beging with the larger and more immediate Parts of the Subject, and so proceed to the more minute and remote Parts. For it would be very improper to idivide a King

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a Kingdom first into Streets and Fields; but we must first begin with Provinces or Counties, and then those Counties may be divided into Towns, Fields, &c. and Towns into Streets and Lanes. 3. The Parts of a Division should be opposite, so as not to contain one another. It would therefore be improper to divide an Animal into Body, Head, Limbs, and Bones, because Bones are included in all the other Parts. 4. We ought not to run into many Subdivisions without Necessity. 5. We should diwide our Subject according to the Deign we have in View. So a Printer divides a Book into Sheets and Pages; out a Logician confiders it as divided nto Chapters, Sections, Propositions, c. 6. In all Divisions the Nature rediat Things should be carefully observed ceed l Thus Nature plainly leads us to dis. Fo ide a Tree into the Root, the Trunk, divid ed the Branches; but it would be un-King natural natural to divide it into the upper, Half and the lower Half, fince it would be hard to determine how much belong'd to the one and how much to the other.

2. Which are the Rules relating

to Distribution?

A. They are much the same with those applied to Division: For, 1. The Parts of a Distribution taken together must contain the Whole. So Manking are justy distributed into Male and Female. 2. In Distributions we mu begin with the larger and more imme diate Species or Ranks of Beings, an not with those which are more minut and remote. Thus Animal would b improperly divided into Sparros Dove, Trout, Flounder, Horse, Bea &c. whereas it should first be diffe buted into Man, Beaft, Bird, Fi Infect; and then Beaft into Hor Bear, &c. Bird into Eagle, Sparro

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&c. Fish into Trout, Flounder, &c. and Infect into Wasp, Butterfly, Caterpillar, &cc. 3. The Parts of a Distribution should not contain or include one another. Thus Men may properly enough be distributed into Young, Old, and Middle aged; but not into Rich, Poor, and Learned, because rich Men may be learned, and fo may the Poor. 4. Subdivisions should not be numerous without Necessity. 5. Each Subject should be distributed according to the special Defign we have in View. Thus, in treating of Politics, Mankind may be distributed into the Rulers and the Ruled; but, with respect to Religion, they are distinguish'd into Heathers, Mahometans, Jews, and Christians. 6. We should carefully follow Nature in all our Distributions.

Q. What is the Meaning of your THIRD Rule, relating to a compre-

benfive Conception of Things.

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A. As we obtain a compleat Conception of an Object by surveying it in all its Parts, so we obtain a comprehensive Conception of it by considering it in all its Modes, Attributes, Properties, and Relations. Indeed, it is neither necessary nor possible to run through all the Modes, Circumstances, and Relations of every Subject we take in hand; but a judicious Speaker or Writer will chuse those which are most necessary to his Design, either to explain, illustrate, or prove his Point.

POURTH Rule, which directs us to conceive of Things extensively?

A. To have an extensive Conception of a Thing is to consider the various Sorts or Kinds of Beings to which the same Idea belongs, i.e. to search out the several Species or Special Natures, that are contain'd under a Genus or General Nature. Thus, if we con-

conceive extensively of an Animal, we consider Beasts, Birds, Fishes and Insects, as well as Men, which are all included in that general Name. Such a Conception of Things enables us to make a proper Distribution of an Universal Whole into its various Species and Individuals, the Rules for which have been just now given.

2. What is the Intention of the FIFTH Rule, to conceive of Things

orderly?

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A. This Rule is intended to prevent Confusion, either in the Mind of the Teacher or the Learner; for which Purpose our Ideas ought to be disposed in a just and proper Method, that may affist both the Understanding and the Memory: As Books in a well-order'd Library are disposed according to their Sizes and Subjects, so that any one of them is readily found by the Student. We might the teacher the teacher that th

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here lay down Rules relating to Method, but that would be anticipating what belongs to the Fourth Part of Logic, wherein we shall speak of it more largely.

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PART II.

Of JUDGMENT.

HAT is meant by JUDGMENT?

A. Judgment is that Operation of the Mind, whereby we compare two or more Ideas together, and either offirm or deny fomething concerning them, according as we find they agree or difagree with each other.

2. Cannot the Mind then form a Judgment, without something be affirm'd or denied in Words?

A. Yes, the Mind may perceive the Agreement or Disagreement of Ideas; and accordingly affent or diffent within itself, though no Words

are

are used: And this is properly call'd Judgment; for when any Judgment is express'd in Words, it is call'd a Proposition. In short, as Ideas are the Result of Conception or Apprehension, so Propositions are the Effects of Judgment.

CHAP. I.

Of the Nature of PROPOSITIONS in general, and the Parts whereof they are composed.

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2. WHAT is a Proposition?

A. It is a Sentence wherein two or more Ideas or Terms are join'd or disjoin'd by one Affirmation or Negation; that is, wherein something is affirm'd or denied: As, Men are mortal: Powerty is no Vice: Complea Happiness is not attainable on Earth.

9. What

2. What are the Parts which confitute a Proposition?

A. The Subject, the Predicate, and

the Copula.

2. What is the Subject of a Pro-

polition ?

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A. It is that of which any thing s affirm'd or denied. So Men, Paverty, complete Happiness, are the Subects of the foregoing Propositions.

2. What is the Predicate?

A. It is that which is affirm'd or lenied of the Subject. So mortal, lice, attainable on Earth, are Prediates in the above Examples.

2. What is the Copula of a Pro-

polition?

A. It is the Word or Words thereby the Affirmation or Negation thing express'd, and the Subject and Preen ar icate are connected. These are am, mplea rt, is, are, can, may, &c. or am not, rt not, is tot, are not, and many others others of the like Nature.—N. B. The Subject and Predicate are call'd the Matter, and the Copula is call'd the Form of a Proposition.

Q. Are all these Parts distinctly ex-

press'd in every Proposition?

A. No, but they are all implicitly contain'd in it. Thus, I write is a compleat Proposition, though the Copula seems to be wanting; for it is the same as I am writing. So in the Proposition Rome is, the Word is includes both the Copula and the Press cate; being the same as Rome is in Being.—And here it may be prope to observe, that the several Parts of Proposition are not always to be known by the Order in which the Words are placed, but by duly considering the Sense of them, and the Design of the Writer or Speaker.

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CHAP. II.

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Of the various Kinds of PROPOSI-

2. I NTO how many Kinds are Propositions usually distinguish'd?

A. They are distributed into various Kinds, according to their Subject, Copula, and Predicate; or with respect to their Nature, Sense, and Ewidence.

2. How are they diftinguish'd in

regard of their SUBJECT?

A. Into four Kinds, viz. 1. Universal, when the Subject is taken in its whole Extent; which Universality is commonly express'd by the Words all, every, no, none, and the like; as, All Creatures bad a Beginning: No Man is free from Failings. 2. Particular, when the Subject is not taken in its whole Extent, but is limited by a Word denoting Particularity, as

fome, many, few, &c. as when we fay, Some Men are blind: Many Opinions are erroneous. 3. Singular, which is when a Proposition only relates to one individual Person or Thing; as Solomon was a wife Man: This Day is very fine. But this Sort of Propositions may justly be included under the general Name of Universals, because the Subject is taken in its full Extent; for being an Individual, it can extend to that only. 4. Indefinite, which is when a Subject has no Note either of Universality or Particularity prefix'd to it, but yet is general in it Nature; 'as, Angels' are immortal: Stones bave no Sensation. But these indefinite Propositions (especially when they describe the Nature of Things are also to be reckon'd Universals.

2. How are Propositions diffinguish'd with respect to their COPULA?

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A. Into Affirmative and Negative. In affirmative Propositions something is positively afferted of the Subject, and is join'd to it by the Words is, are, &cc. as, God is a Spirit. In negative Propositions something is denied of the Subject, and is therefore difjoin'd from it by the Particles is not. are not, &cc. as, Man is not a Stone. -Here it is natural to observe, that the Sense of many Propositions may be plain and easy, though it may be difficult to fay whether they should be ank'd under the Names of negative or offirmative; nor is it worth while to wrangle about Matters of fo little Importance. The Distinction indeed s allowable and uleful; but it feems o me, that all Propositions may in some Sense be call'd affirmative; for affirm that fomething is, or is not; pr, in other Words, they affirm the Agreement or Disagreement of Ideas.

Let the Scholar likewise take notice, that in our Language two Negatives in one Sentence make an Affirmative; for if we say, No Man is not mortal, it is the same as if we said, Every Man is mortal. But in Greek, and very often in French, two Negatives only deny more strongly.

2. How are Propolitions diffinguish'd with respect to their PREDI-

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A. Into Pure and Modal. A pure Proposition merely and simply expreses that the Predicate is connected with the Subject; as, A Globe is round. A modal Proposition shews also the Way and Manner wherein the Predicate and the Subject are connected These Mods of Connexion are usually reckon'd four, viz. 1. Necessary; as It is necessary that a Globe should be round. 2. Contingency; as, A Globe may be made of Brass or Wood, for the

is an indifferent or contingent Thing.
3. Possibility; as, It is possible a Globe may be made of Water. 4. Impossibility; as, It is impossible that a Globe should be square.

2. Are there no other Modes of connecting the Predicate with the Sub-

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A. Yes, many more; for to those above mention'd, which are only natural, might be added moral and civil Modes, such as Lawfulness and Unlawfulness, Conveniency and Inconveniency, &c. So also, it is probable, it is improbable, it is certain, it is doubtful, it is faid, it is written, and various other Modes of speaking whereby a Predicate and a Subject are connected, will form other Kinds of modal Prosositions.

2. How are Propositions distri-

A. Into Single and Compound.

2. What

Q. What is a Single Proposition?

A. That which has but one Subject, and one Predicate. If these consist only of simple Terms, the Proposition is call'd simple; as, Sinners are miferable: Virtue is desirable. But if the Subject or Predicate are made up of complex Terms, the Proposition is also call'd complex; as, Impenitent Sinners are miserable: Virtue is desirable more than Gold.

Q. What is a Compound Proposi-

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tion?

A. That which has two or more Subjects or Predicates, or both, and therefore contains two or more Propositions, either plainly express or implied.—The first Sort of compound Propositions, i. e. wherein the Composition is express d and evident, are distinguished into Copulative, Disjunctive, Conditional, Causal, Relative, and Discretive; of which take the following

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following Examples. 1. Those are copulative, whose Subjects and Predicates are connected by affirmative or negative Conjunctions; as, Riches and Honours are Snares: Neither Gold nor Diamonds can fave us from Death. These are evidently compound, for each of them may be refolv'd into two Propositions, viz. Riches are Snares, and Honours are Snares: Gold cannot fave us, &cc. Diamonds cannot fave us, &c. 2. In disjunctive Propolitions the Parts are opposed to one another by disjunctive Particles; as, It is either Day or Night. 3. Conditional or bypothetical Propositions have their Parts united by a conditional Particle; as, If the Sun Shines, is Day. The first Part of such Propositions, wherein the Condition lies, s call'd the Antecedent, and the other the Consequent. 4. Causal Proposiions are fo denominated from the F 2 camal

causal Particles by which they are connected; as, We are dependent, because we are Creatures. Hither some refer those Propositions call'd veduplicative; fuch as, Men, as Men, are rational; that is, because they are Men. 5. Relative Propositions (which are near a-kin to conditional ones) express a Relation or Comparison of one Thing to another; as, Where the Treasure is, there will the Heart be. 6. Discretive Propositions are those wherein various Judgments are made, denoted by the Particles but, though, &c as A good Boy may play, but should not forget bis Task: Job was patient, though his Affliction was great.—The fecond Sort of compound Propositions, where the Composition is not so evident, are chiefly Exclusives and Exceptives. The former are fo denomi nated from the exclusive Words, alone only, &c. as, God alone is eternal. Th latte

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latter are known by the exceptive Words, beside, unless, none but, &c. as, No Animal, befide Man, is rational. These feem to be fingle Propositions, but a little Confideration will shew that they contain two at leaft. The first (for Instance) may be resolv'd into these: God is eternal; and, No other Being is so -I might add more Distinctions under this Head, and fpend Time in shewing whereon the Truth of these several Propositions depends, as also how they are to be opposed or contradicted, but I think this would be of little Service, fince a moderate Share of common Sense will be fufficient for these Purposes, without the Formality of Rules.

2. How are Propositions distinguish'd with regard to their SENSE?

A. According to their Sense or Signification, they are distinguish'd into Irue and False. A true Proposition

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represents Things as they really are in themselves; as, Birds have Wings: Brutes are not insensible Machines. A false Proposition represents Things otherwise than they really are; as, Birds have no Wings: Brutes are insensible.

2. Is there any certain Mark whereby we can distinguish Truth

from Falfbood?

A. Yes, the Criterion or diffinguishing Mark of Truth is Evidence; that is, a clear and diffinate Perception of the Agreement or Difagreement of Ideas to one another: For fince we cannot with hold our Affent when the Evidence is plain and strong, we should be necessarily led into Error if complete Evidence could be found in Propositions that are false; but it would be impious to suppose, that the God of Truth and Good-

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ness would ever oblige his Creatures to be so deceiv'd.

2 How are Propositions distinguish'd with respect to their Evi-DENCE?

A. According to their different Degrees of Evidence they are diffinguish'd into Certain and Doubtful.

2. What is a certain Proposition.

A. That wherein the Agreement or Disagreement of the Ideas appears so plainly to the Mind, that we cannot forbear affenting to it; as, The Whole is greater than a Part: Two and Two make Four: Every Circle has a Center. Propositions of this Kind make what we call Knowledge.

2. What is a doubtful Proposi-

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A. That whose Evidence is not so clear and strong as to force the Assent of the Mind, but permits us to suspend our Belief at Pleasure; as, The

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Moon is inhabited: The World will be destroy'd in less than a thousand Years. Such uncertain Propositions are what we call Opinions.

2. Does not this last Sort of Propositions admit of a farther Distin-

ction?

A. Yes, they are diftinguish'd into Probable and Improbable. We call that a probable Opinion or Proposition, when the Evidence of it is greater than the Evidence of the contrary: When the Evidence or Arguments are stronger on the contrary Side, we call it improbable: But if the Arguments on both Sides appear equally strong, we commonly call it doubtful. And in general all Propositions are doubtful wherein we can perceive no fufficient Marks either of Truth or Falshood: In which Case the Mind ought to suspend its Assent, till superior Evidence on one Side or other

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other incline the Balance of the Judgment.

2. How many Kinds of Evidence

are there?

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A. Six, viz. Sense, Consciousness, Intelligence, Reason, Faith, and Inspiration; on one or more of which all Propositions are grounded.

2. How do you explain these se-

veral Kinds of Evidence?

A. 1. The first Kind is that which arises from the Dictates of our Senses, on which are built such Propositions as these: Grass is green: Sugar is sweet: Hunger is painful, &c. and these may be call'd sensible Propositions. 2. Many Propositions are built on an inward Consciousness, or spiritual Sensation of what passes in the Mind; as, Long Meditation on one thing is tiresome: Fear is a troublesome Passion: I am desirous of Knowledge, &c. These Propositions are not distinguish'd

stinguish'd (that I know of) by any particular Name. 3. INTELLIGENCE relates to self-evident Propositions, or those Principles of Truth which are wrought (as it were) into the very Nature and Frame of our Minds, and to which we necessarily affent as soon as the Terms are understood; as, No Effect is produced without a Cause: A Part is less than the Whole, &c. Thefe are call'd Axioms, Maxims, or first Principles, being the very Founda. tions on which all our Reasonings are built. 4. When one Truth is juftly inferr'd or drawn from others, this is the Evidence of REASONING: 23 when I see a Watch, I conclude, Some Artist made it; when I survey the Heavens and the Earth, I infer, There is a God who created them. Propolitions built on this Kind of Evidence are call'd Conclusions, or rational Truths; and the Knowledge we thus acquire iny

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acquire is properly call'd Science. c. The Evidence of FAITH is that which is derived from the Testimony of others. By this we know that there is such a Country as Egypt, that there was fuch a City as Troy, and fuch a Poet as Homer. This, in short, makes a great Part of our Knowledge, there being ten thousand things which we believe upon the Authority of those who have spoken or written about them; and as these Persons are many or few, and of more or less Wildom and Credit, so our Faith is fironger or weaker, and the Proposition believed is either certain or doubtful; but in Matters of Faith a very great Probability is call'd a moral Certainty. When we believe any thing upon the Word of Man, it is call'd Human Faith; but when we believe because God has reveal'd it, that is Divine Divine Faith; and the infallible Affurance arising from such Evidence is call'd supernatural Certainty.

6. Another Sort of Evidence, distinct from all the former, is Inspiration, or a convincing and indubitable Impression of any Truth made upon the Mind by God himself. Propositions built on such Evidence are call'd inspired Truths. This is Divine Revelation in the suft and highest Sease, being the Dictates of the Holy Spirit in an immediate Manner.

CHAP. III.

Of the OPPOSITION and CONVER-

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A. It is proper to take Notice, that the Distinction of Propositions into universal and particular is said to be according to their Quantity; but when they are distinguish'd into assume and negative, this is said to be according to their Quality. With respect to both Quantity and Quality they are distinguish'd into sour Kinds, which Logicians denote by the Vowels A, E, I, O, thus:

Universal Affirmative.
Universal Negative.
Particular Affirmative.
Particular Negative.

Of these several Forms the following Propositions are Examples:

A All Men are mortal.

E No Men are mortal.

I Some Men are mortal.

O Some Men are not mortal.

2. Do

2. Do not Logicians speak of the Opposition and Conversion of Propositions?

A. Yes, they have faid a great deal more than is worth repeating here; but it feems proper to explain briefly what they mean by opposite and convertible Propositions.

2. What Propositions are faid to

be opposite?

A. When two Propositions have the same Subject and the same Predicate, and what is denied in one is affirm'd in the other, either in Whole or in Part, they are said to be opposite.

2. Are there not several Species

of this Opposition?

A. Yes; if the two Propositions are opposite both in Quantity and Quality, they are call'd Contradictory; as,

A All Men are mortal.

O Some Men are not mortal.

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These contradictory Propositions can never be both true, or both false, at the same Time.

If two Universals differ in Quality,

they are call'd Contraries; as,

A All Men are mortal.

E No Men are mortal.

These cannot be both true together,

but may be both false.

Two Particular Propositions, opposite in Quality, are call'd Subcontraries; as,

I Some Men are mortal.

O Some Men are not mortal.

These may be both true, but cannot be both false.

Propositions which differ only in Quantity are call'd Subalterns; but these are not properly opposite, because the particular Proposition is always included.

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Included in the universal one; as,

A All Men are mortal.

I Some Men are mortal.

Or thus,

E No Men are mortal.

O Some Men are not mortal.

The Properties of these Proposition are, r. If the universal one be true the particular one will be true also but not on the contrary. 2. If the particular Proposition be false, the universal will be so too, but not the contrary. 3. They may be some times both true, and sometimes both false.

2. What is meant by the Conver

fion of Propositions?

A. This is when the Subject an Predicate of a Proposition may chang their Places, and yet the Truth b preferv'd; which may always be don in Universal Negatives and Particular,

E \ \ No Virtue is Vice, may be converted, No Vice is Virtue.

Here we see the Subject of the former Proposition is made the Predicate of the latter, and the Predicate the Subject, yet both are equally rue. So likewise,

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Some Soldiers are Cowards, may be converted, Some Cowards are Soldiers.

To fay much more upon this Head would be spending Time without any eal Advantage, as it would be triing about a Form of Words, rather han discoursing about the Matter. It it may be observed, that there it some Propositions which may be always

always converted with Truth, by reafon of the Ideas or Matter whereof they are composed. This is the Case in Propositions whose Predicate is a true Definition of the Subject, or the Difference of it; or the bigbest Degree of any Property or Quality; or, in short, whenever the Subject and Predicate are exactly of the fame Extent or Comprehension: As, A Triangle is a Figure composed of three Sides and, A Figure composed of three Sides is Triangle: Religion is the truest Wife dom; and, The truest Wisdom is Religion gion. Adam was the first Man; and The first Man was Adam. Such Pro positions as these are properly conver tible, and are call'd resiprocal Propo Stions.

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CHAP. IV.

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Of PREJUDICES, or the Springs of False Judgment.

A. No; enough has been faid concerning Propositions?

A. No; enough has been faid concerning Propositions, in themselves concerning of the Springs and Conditions in the series of themselves are call'd Prejudices, and so are the Springs of them; of hich there is a vast Variety attends lanking in every Age and Conditions.

Life; and they are so interwoven it each other, as well as with the wers of Human Nature, that it is notimes difficult to make a proper

Distinction between them: But for the Sake of Method they may be reduced to the following Heads, viz. Prejudices arising from Things, from Words, from Ourselves, and from other Perfons.

2. Which are the Prejudices ari-

fing from THINGS?

A. 1. The Obscurity of some Truths to and the Difficulty of discovering them or in one Source of false Judgment wi This Sort of Prejudice, as well a Th most others, is cured by Patience and lea Diligence in our Enquiries, and by sufpending our Judgment till we have Me sufficient Evidence of the Truth Lig. 2. The outfide Appearance of Things and the Persons frequently leads us into Mi takes. But this Prejudice is remov by an Acquaintance with the Work and observing that Things are form new times better and fometimes worle the they outwardly appear. A grey Beamaot

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is not a certain Sign of Wildom; and re a rough Diamond, though worth an immense Sum, may seem to us of no Value at all. 3. A Mixture of difber ferent Qualities in the fame Thing is another Spring of rash and mistaken ari. Judgment; for we are very apt to judge of the whole Object according uth to that Quality which makes the first hem or the firongest Impression upon us, ent without confidering any of the reft. Il a This Sort of Prejudice is cured by and earning to make just Distinctions, and d be not to judge in the Lump, either of have Men or Things. 4. The different ruth Lights in which a Thing is placed, and . s and the different Views in which it appears Mi b us, often occasions us to form wrong Judgments concerning it. To Total correct which Prejudice we should form liew a Thing on all Sides, and comthe pare its feveral Appearances with one Beamsother, before we fully determine our

our Opinion. 5. The cafual Affocia. tion of many of our Ideas is another Source of rath Judgment and Mistake: As a Child that has drank a bitter Potion retains a bitter Idea of the Cup that held it, and is not easily perfuaded to drink out of it again. Many Prejudices of this Kind we imbibe in our Youth, to remove which we must endeavour to separate those Idea which have no natural and necessary Connection, but have been join'd together only by Fancy, Chance, or Cuftom:

2. What Prejudices arise from WORDS?

A. I. We are led into several Mistakes by infignificant, equivocal, and fynenymous Words; to avoid which let the Reader carefully observe what has been faid in Chap. IV. of the First Part of this Treatise, and in Chap. V. concerning the Definition of

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2. Words join'd in Speech; and composing a Discourse, are apt to lead us into Mistake two Ways. On the one hand, when a Man writes or fpeaks much to the Purpole, but has not a good Style or an engaging Manner of Expression, we frequently despise an excellent Discourse, and overlook the wifest and the justest Sentiments. On the other hand, we are often charm'd into Error by a Man of Eloquence, whose Art conceals or obscures the Truth, and places Falshood in a pleasing Light. To secure ourselves against these Dangers, we must learn to diftinguish between Language and Ideas, and to judge of Things in their own Natures, and in their just Relation to one another.

2. Which are the Prejudices ari-

fing from OURSELVES?

A. 1. The Prejudices of Infancy, which are derived from the Weakness

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of our Reason and Incapacity to judge rightly of Things in our Childhood. Thus Boys are apt to think Learning an unpleasant Thing, because perhaps they have been whipt at School; and to look upon those as their best Friends who beg them a Holiday, or screen them from Correction when they have done amiss. The Way to get rid of these Prejudices is to reexamine the Opinions framed in our tender Years, when our Reason is frong and mature. 2. The Prejudices of Sense, or the falle Informations of Things we receive from our Senses, are another Spring of rash Judgment and Mistake. Thus many People Suppose the Sun and Moon to be flat Bodies, and much about the same Bigness, because they appear so to the Eye; and because we do not feel the Air press heavy upon us, we are inclined to think it has no Weight. Such

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Such Prejudices as these remain with the Generality of Mankind, till they are cured by Learning and Philosophy. 3. Many false Judgments take their Rife from our Imagination, or the Distates of Fancy. Some Persons take for Truth whatever is strongly impress'd upon the Imagination; and f they fancy (for Instance) this or that particular Number more fortunate than the rest, they will chuse a Lottery-Ticket accordingly, and think themselves sure of Success. To prevent such Deceptions as these, we must take care to bridle the Extravagancies of Fancy, to fet that unruly faculty afide in our Enquiries after Truth, and to let calm Reason determine our Opinions. 4. From the various Passions or Affections of the Mind arise innumerable Prejudices. ove makes even Blemishes appear as eauties; Fear multiplies our Dangers;

Emp represents our Neighbour's Condition better than it is; and to Defpair the very least Difficulty seems unfurmountable. For these Prejudices the best Remedy is to keep a continual Watch over our Passions, and not to form our Judgments when the Affections are warmly engaged, but when the Mind is perfectly serene and compos'd. 5. The Fondness we have for SELF, and for Persons and Things that bave Relation to ourselves, is another great Spring of false Judgments. The Laplander, amidst his Ice and Snows, is as fond of his native Country as he who is born amongst the Gardens of Italy. Our Kindred, our Party, our Opinions, our very Names, feem to have fomething peculiarly valuable in them, and we cannot bear that others should think meanly of them. In a Word the Prejudices of this Kind flick for closely to our Natures, and have fuch

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a pernicious Influence on our Underflandings, that we cannot too much guard against them in our Searches after Truth, and in forming our Judgments of what is Right and Wrong. 6. The peculiar Tempers and Humours of the Mind have an Influence upon Mens Judgments, and are the Occafion of frequent Mistakes. Some are so easy and credulous, as to believe every thing that has the least Shadow of Evidence; whilst others are led by a Spirit of Contradiction to oppose every thing that is advanced either in Writing or Conversation. Some are always positive, others always doubting and others perpetually changing one Opinion for another. These Tempers (and more that might be mention'd) are very injurious to a right Judgment of Things; but may be reliev'd by Patience in Study, and a diligent and honest Attention in the Search

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Search of Truth. 7. A Dulness of Perception, a Defect of Memory, a Narrowness of Mind, and several other Weaknesses belonging to Human Nature, are the Causes of Mistakes and Inconsistencies in Judgment; nor can we expect to be quite free from Errors and Impersections in the present Life.

Q. Which are the Prejudices arising from OTHER PERSONS?

A. I. The Prejudices of Education, which we imbibe from our Nurses, from unskilful Teachers, from our School fellows, from Servants, or any other Persons with whom we are conversant in our younger Years. It is then we are taught that there are Hobgoblins in the Dark, that the Screeching of an Owl presages Death in a Family or Neighbourhood, that such and such Days are lucky or unlucky, and a thousand such ridiculous Stories.

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Stories, which have too lafting an Influence on the weaker Part of Mankind. We take our Religion from our Parents and Tutors, and Millions are born, and live, and die in the fame Faith, without examining any one Article, or being able to give any other Reason for it, than that they were taught and believed fo from their Infancy. These Prejudices are to be cured by bringing the Principles of our Youth to the Test of calm and severe Reason when we come to Years of Maturity. 2. Another Sort of Prejudice arises from the Custom or Fashion of those amongst whom we live: Our Cookery, our Drefs, our civil and religious Forms and Practices, are all regulated by Custom; and what appears elegant, polite, and decent in one Country, is aukward and ridiculous in another. To remove Prejudices of this Kind it is of excellent Ule

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Use to travel, or to read the Travels of other Men, and the History of past Ages; and whenever we pass a Judgment concerning the Nature of Things, let us remember that Truth and Reason are invariable, and does not change with Fashion or Custom. 3. The Authority of Men is the Spring of another Kind of Prejudices. We very often pay an unreasonable Deference to the Authority of the An. cients, and many impertinent Trifles are reverenced for no other Reason but because they bear the Mark of Antiquity. A Writer or Preacher of a great Name draws a Multitude of Followers into his own Mistakes; the poor Man often believes as his wealthy Neighbour does, and the Opinion of the 'Squire is follow'd by half the Parish. But to remove these Prejudices let us remember, that no Man, of whatever Rank or Character, has any

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any just Pretence to sway the Judgment of others by his own Authority; and that Riches, Honours, Titles, and Reputation, are not always accompanied with Truth and Wisdom. 4. The Prejudices arifing from the Manner of Proposal are near a-kin to thole of Authority. Some Persons readily believe what another dictates with a positive Air and a great Affurance: Others quickly swallow any Doctrine when it is proposed with all the Airs of Piety, and solemn Appeals and Protestations. Some are frighted into the Belief of particular Doctrines, because a Man of great Name or Character pronounces the contrary Sentiments beretical and damnable; whilst others are led into Error by a foft Address, and the engaging Methods of Persuasion and kindness. The Way to avoid such Mistakes

Mistakes as these is to distinguish well between the Substance of any Doctrine, and the Manner in which it is proposed, attack'd, or defended; and not to yield our Assent to any thing but the convincing Evidence of Truth.

Having thus pointed out many of the numberless Prejudices that attend Mankind, and the Means by which they may be avoided or removed, I shall conclude this Part of Logic with some general Directions to affilt us in forming a true Judgment of Things.

CHAP. V.

General Directions for Judgino aright.

2. WHICH are the best Rula to direct us in forming out Judgment?

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A. Some Hints for this Purpofe have been occasionally dropt already but it will not be a needless Repetinot sion to collect them in this Place, and but exhibit at one View fuch general Diections as are proper to affift us in of udging rightly. A great Number night be framed that would contrioute to this End, but the most useul are those which follow.

DIRECTION I. When we are earching after Truth, we should bring nent will our old Opinions to a field Exmination, enquire into the Ground of bem, and east off those Judgments which appear to have been form'd without Sufficient Ewidence. This ineed cannot be done all at once, and ew People have either Time or Caacity to take such a Review of their Rula pinions; but so far as we are able should be done by prudent Steps d Degrees, till our Principles are rereform'd, or at least establish'd upon juster Foundations.

DIRECT. II. We should endeavour to have clear, complete, comprehensive, extensive, and orderly Ideas of those Objects upon which we pass any Judgment, so far as we have Occasion to judge concerning them, and as our impersect Knowledge of Things will admit. This Direction is not to be strictly observed in Matters of Testimony, wherein it is not absolutely necessary to have clear and distinct Ideas of what is proposed to our Belief, provided we have sufficient Evidence of the Credibility of the Proposer.

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DIRECT. III. Compare the late of a Proposition with the utmost Attention, and observe bow far they again and wherein they differ. But in making this Comparison between the lates of the Subject and the Predicate

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DIRECT. IV. Search diligently and be penalty for Evidence of Truth, and be ready to receive it on which Side forver to appears. Take great Care that your Wishes or Inclinations do not between your Judgment.

DIRECT. V. Suspend your Judgment, and neither affirm nor deny withut sufficient Evidence. It is more articularly necessary to observe this Direction, when the Propositions to e examin'd are supported by Education, Authority, Interest, or any other owerful Prejudice.

DIRECT. VI. Judge of every Prostion by the proper Mediums or Means bereby its Evidence is to be obtained. hat is, if we judge of Sounds, Cours, or any other Objects of Sense, must do it by the Use of our Sen-

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fer: If we judge of the Nature of Spirits, their Powers and Perceptions, we must apply to our Consciousness of what passes within our own Mind: If we judge of Matters done in passes, or in distant Countries, we must have Recourse to the Testimony of others.

DIRECT. VII. We should have fome general Principles of Truth settle in our Minds, that they may alway be ready to assist us in forming a Judgments of other Things whose Endance is less obvious.

DIRECT. VIII. The Degrees our Assent should always bear an example of the different Degrees Evidence. This will secure us from many Mistakes both in Speculation and Practice.

DIRECT. IX. Our Minds for be always open to receive the Irul

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exa ees mor should we ever think ourselves too wife to be instructed. Let us part with the oldest and most favourite Opinions for the sake of Truth, and remember that our Knowledge is always capable of Improvement.



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PART III.

Of REASONING.

REASONING, which is the third Part of Logic?

A. It has been shewn that the first Operation of the Mind is PERCEPTION, whereby our Ideas are fram'd; and that the second is JUDGMENT, which joins or disjoins our Ideas, and forms a Proposition. We now come to the third Work of the Mind, call'd REASONING or Argumentation, whereby several Propositions are join'd together, to form an Argument of

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CHAP. I.

Of the Nature of a SYLLOGISM, and the Parts of which it is composed.

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A. It is an Argument, or Form of Reasoning, whereby we infer something that is less known from Inthe which are more evident. Or, it is an Argument consisting of three Propositions, disposed in such a Manner, as that the last is necessarily inferred from the two former; so that if the first and second Propositions be granted, the Conclusion must be granted also. This will easily be understood by the following Example:

Our Creator must be worshipped.
God is our Creator.
Therefore God must be worshipped.

H 4 2. What

2. What is to be consider'd in the Constitution of a Syllogism?

A. The Matter and the Form.

2. What is meant by the MATTER

of a Syllogism?

A. The Matter is the three Propofitions of which it is composed; and these are made up of three Terms or Ideas. The Terms are call'd the remote Matter, and the Propositions the immediate Matter of a Syllogism.

2. What are the Names of the fe-

veral Terms?

A. They are call'd the Major, the Minor, and the Middle. The Major or Greater Term is the Predicate of the Conclusion; the Minor or Lesser Term is the Subject; and these are call'd Extremes. The Middle Term is one chosen at pleasure, and so disposed in two Propositions, as to shew the Agreement or Disagreement between the Major and Minor Terms in

in the Conclusion; and therefore the Middle Term is fometimes call'd the Argument.

2. What are the Names of the

Propositions in a Syllogism?

A. The first is usually call'd the Major, wherein the Middle Term is connected with the Predicate of the Conclusion: The second is call'd the Minor, (and sometimes the Assumption) wherein the Subject of the Conclusion is connected with the Middle Term. These Propositions have the Name of Premisses; and the third, which is drawn from them, is the Conclusion.

2. What is the Form of a Syllo-

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A. It is the framing and disposing the Premisses justly, and from thence drawing a regular Conclusion or Inference. This Inference is generally express'd by the Particle Therefore, or the Latin Word Ergo, (which is of the

the same Signification) when the Argument is form'd according to the Rules of Art: But in common Discourse or Writing, the Particles for, because, &c. shew the Act of Reasoning, or inferring one Thing from another, as well as then and therefore; and when such Words are used, a Syllogism is express'd or implied, though perhaps the three Propositions are not disposed in a regular Form.

CHAP. II.

Of the various Kinds of SYLLO-GISMS.

2. INTO how many Kinds are Syllogisms distinguish'd?

A. They are diftinguish'd into several Kinds, either according to the Question to be proved, their Nature and and Composition, or the Middle Term which is used to prove the Question.

2 How are they diffinguish'd in respect of the QUESTION to be

proved?

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A. Into Universal Affirmative, Universal Negative, Particular Affirmative, and Particular Negative. This is sometimes call'd a Division of Syllogisms according to the Conclusion; for there may be so many Sorts of Conclusions, denoted by the Letters A, E, I, O, as may be seen in Chap. III. of the Second Part of this Treatise.

2. How are Syllogisms distinguish'd with respect to their NATURE and COMPOSITION?

A. Into Single and Compound. A Single Syllogism is made up of three Propositions: A Compound Syllogism contains more than three, and may

be form'd into two or more Syllo.

2. Are not Single Syllogisms sub-

divided into feveral Sorts?

A. Yes, into Simple, Complex, and Conjunctive.

2. What is a Simple Syllogism?

A. Those properly call'd Simple Syllogisms are composed of three plain, single, or categorical Propositions, wherein the Middle Term is evidently join'd with one Part of the Question in the Major Proposition, and with the other in the Minor, from whence a plain and fingle Conclusion is naturally drawn. Such is the Syllogism in the foregoing Chapter.

2. Which are the Rules relating to the Formation of fimple Syllo-

gifms?

A. They are these. 1. The Middle Term must not be taken twice particularly, but once at least universally. 2. The lo.

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2. The Terms in the Conclusion must never be taken more universally than they are in the Premiss. 3. A negative Conclusion cannot be proved by two affirmative Premiss. 4. If one of the Premiss be negative, the Conclusion must be negative. 5. If either of the Premiss be particular, the Conclusion must also be particular. 6. No Conclusion can be drawn from two negative Premiss. 7. Nor can any thing be concluded from two particular Premisses.

Here it is proper to take some Notice of the various Moods and Figures of Simple Syllogisms, which have been invented by Logicians, and about which they have spent a great deal of Time and Paper; for though the Light of Nature and a good Judgment contribute more to true Reasoning than all these scholastic Subtleties, yet in some Cases they may have their their Use, and therefore we shall briefly explain them.

2. What is the Figure of a Syl-

logifm?

A. It is the proper Disposition of the Middle Term with regard to the Extremes, or Parts of the Question.

2. What is the Mood of a Syllo-

gifm ?

A. It is a proper Disposition of the Proposition according to their Quantity and Quality, that is, their universal or particular Affirmation or Negation. The several Moods of Syllogisms have certain artificial Names given them by Logicians, wherein the Consonants are neglected, and only the Vowels A, E, I, O, regarded, which denote the Quantity and Quality of the Propositions.

2. How many Figures are there?

A. There are usually reckon'd

three, though fome add a fourth.

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2. How is the Middle Term dif-

posed of in these Figures?

A. In the first Figure the Middle Term is the Subject of the Major Proposition, and the Predicate of the Minor. In the second the Middle Term is the Predicate of both the Premisses. In the third it is the Subject of both the Premisses.

Q. How many Moods does the first

Figure contain?

A. Four, whose Names are Barbara, Celarent, Darii, and Ferio; of which the following are Examples:

> BAR- Every wicked Man is miferable.

BA- All Tyrants are wicked Men.

RA. Therefore all Tyrants are miserable.

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CE- They who neglet their Duty.

LA- Idle Boys negledt their Duty.

RENT. Therefore idle Boys are mi

DA- They who please God and happy.

RI- Some poor Men please God.

1. Therefore some poor Men are happy.

FE- Disobedient Children att not Bleffings.

RI- Some Children are disobe-

o. Therefore some Children att not Bleffings.

2. How many Moods are there in the fecond Figure?

A. Four,

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A. Four, the Names whereof are Cefare, Camestres, Festino, and Baroco; of which take these Examples.

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Cobe-

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our,

CE- No Liar is fit to be be-

SA- Every good Christian is fit to be believ'd.

RE. Therefore no good Christian is a Liar.

CA- All pious Men deserve E-

MES- No Robbers deserve E-

TRES. Therefore no Robbers are pious Men.

FE- No Sin is excufable.

STI- Some Faults are excusable.

No. Therefore some Faults are not Sins.

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[114]

Every Part of Religion is rational.

Some Doctrines are not rational.

Therefore some Doctrina Co. are no Part of Religion.

2. How many Moods are there in the third Figure?

A. Six, the Names of which are Darapti, Felapton, Difamis, Datifi, Bocardo, Ferison. Examples of each follow.

> DA- All good Christians shall be faved.

RAP- All good Christians have finned.

TI. Therefore some who have sinned shall be faved.

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FE- No Hypocrites are pleafing to God.

LAP- All Hypocrites appear to be religious.

TON. Therefore some who appear to be religious are not pleasing to God.

Di- Some Men are bonourable.

SA- All Men have their Imperfections.

Mis. Therefore some who have Impersections are honourble.

DA- All virtuous Men are bap-

TI- Some virtuous Men are Beg-

SL. Therefore some Beggars are happy.

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Bo- Some Wars are not to be a. woided.

CAR- All Wars produce Blood. Bed.

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DO. Therefore Some Bloodshed is not to be avoided.

No Afflictions are pleasant Some Afflictions are good for 25.

SON. Therefore some Things that are good for us are m not pleafant.

Q. What are the special Rules of

thefe Figures?

A. In the first, the Major Propo fition must always be universal, as the Minor affirmative; but it admi of all Sorts of Conclusions, whether universal or particular, affirmative negative. In the fecond, the Maj must also be universal; and one of

misses, with the Conclusion, always negative.- In the third, the Minor must be affirmative, and the Conclufion always particular,

2. How is the Middle Term placed

in the fourth Figure?

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A. It is the Predicate in the Maor Proposition, and the Subject in the Minor; but this is fuch an indirect Way of drawing a Conclusion, that it may be look'd upon as useless, and is not worth explaining by Examples.

2. What is a Complex Syllogism?

A. Those Syllogisms are call'd Complex, wherein the Middle Term is not connected with the whole Prediate, or the whole Subject, in two liftinct Propositions, but is intermix'd and compared with them by Parts, or n a confused Manner, and in diferent Forms of Speech. For Eximple:

The

The Devil is a wicked Spirit.
Some Indians worship the Devil.
Therefore some Indians worship a
wicked Spirit.

In this Syllogism the Predicate of the Conclusion is worship a wichil Spirit; Part of which is join'd with the Middle Term Devil in the Major Proposition, and the other Part in the Minor. This reduced to a simple Syllogism, in the Mood Dari, stands thus:

The Devil is a wicked Spirit.

What some Indians worship is the Devil.

Therefore what some Indians we ship is a wicked Spirit.

But the conclusive Force of this Syllogism was evident enough without such Reduction: And the same may

be faid of a vast Number of other Arguments used in the Writings of learned Men, as well as in common Conversation, it often appearing plainly that the Inference is just and true, though the Form of the Syllogism is irregular and confused.

2. What is a Conjunctive Syllo-

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may be A. It is one whose Major Proposition has distinct Parts, which are join'd by a Conjunction, or some such Particle of Speech. These Syllogisms are of various Kinds, but the chief of them are four, viz. the Conditional, the Disjunctive, the Relative, and the Connexive; which the following Examples will explain.

1. A Conditional or Hypothetical Syllogism is that whose Major or Minor, or both, are conditional Pro-

positions; as,

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If there be a God, the World is govern'd by Providence. But there is a God. Therefore the World is govern'd by Providence.

Here the Antecedent is afferted in the Minor, that the Confequent may be afferted in the Conclusion; which is call'd arguing from the Position of the Antecedent to the Position of the Consequent.—Again:

If the Sun shines, it is Day. But it is not Day. Therefore the Sun does not shine.

Here the Consequent is contradicted in the Minor Proposition, that the Antecedent may be contradicted in the Conclusion; which is call'd arguing from the removing of the Consequent to the removing of the Antecedent.

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2. A Disjunctive Syllogism is when the Major Proposition is disjunctive, being connected by the Particles or, either, &c. as in the following Instances:

We either defire to be bappy or miscrable.

But we do not defire to be misera-

Therefore we defire to be bappy.

This Kind of Syllogism may have many Parts or Members; as,

It is either Spring, Summer, Autumn, or Winter.

But it is neither Spring, Summer, nor Autumn.

Therefore it is Winter.

3. A Relative Syllogism is when the Major Proposition is relative; as, Where Where the Treasure is, there is the Heart.

But a Miser's Treasure is in his Bags.

Therefore bis Heart is there also.

Or, A Saint's Treasure is in Heaven:
Therefore his Heart is in Heaven
also.

To this Head may be referr'd those Syllogisms that relate to Proportion; as,

As Three are to Six, fo are Four to Eight.

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But Three make the Half of Six. Therefore Four make the Half of Eight.

4. A Connexive Syllogism has generally the Parts of the Major join'd together by a Copulative, and is by some call'd a Copulative Syllogism; as,

No Man can serve God and Mammon.

But the covetous Man ferves Mammon.

Therefore he cannot serve God.
Or, The true Christian serves God:
Therefore he cannot serve Mammon.

N. B. In all Kinds of Conjunctive Syllogisms great Care should be taken that the Major Proposition be true; for upon that depends the whole Force of the Argument.—Thus much for Single Syllogisms.

2. Which are properly call'd Com-

pound Syllogisms?

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A. Those which contain more than three Propositions, being made up of two or more Single Syllogisms, into which they may be resolved. Of these there are several Kinds, the chief

chief whereof are the Epichirema, Dilemma, Profyllogism, and Sorites.

2. What is an Epichirema?

A. A Syllogism which proves the Major or Minor, or both, before a draws the Conclusion; as,

Sickness may be good for us; for it shews us our Frailty, weams us from worldly Enjoyments, and makes us think of dying. But we are uneasy under Sickness; which we manifest by Complaints, Groanings, &c.

Therefore we are sometimes uneasy under that which is good for us.

2. What is a Dilemma?

A. It is a Sort of Argument wherein the Whole is divided into all in Parts or Members, and then fomething is inferr'd concerning each Part, which is finally inferr'd concerning the

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the Whole. This Kind of Syllogism is so contrived, that let your Adversary take which Side of the Question he pleases, the Conclusion turns to his Disadvantage. For Example:

> In Heaven we shall either have Defires or not.

> If we have no Defires, then we shall have full Satisfaction: If we have Defires, they will be satisfied as fast as they arise.
>
> Therefore in Heaven are shall he

Therefore in Heaven we shall be compleatly satisfied.

A Dilemma may be faulty three Ways: First, when the Parts or Members of the Division in the Major are not fully enumerated; fecondly, when what is afferted in the Minor concerning each Part is not true; thirdly, when the Argument may be retorted with equal Force upon him who uses it.

it. This last was the Fault of the celebrated Dilemma of Protagoras, which he made use of on the follow. ing Occasion. Protagoras taught Euathlus the Art of Pleading, in Confideration of a Sum of Money, which Euathlus promised to pay him the first Day that he gain'd any Cause in Court. After a Time Protagoras goes to Law with Euathlus for the Money, and argues in this Manner: Either I shall gain the Cause, or you will gain it. If I gain the Cause, you must pay me according to the Sentence of the Judge: If you gain it, you must pay me according to the Covenant between us. Therefore whether the Cause goes for me or against me, you must pay me the Money. But Euathlus thus retorted the Dilemma upon his Master. Either I Shall gain the Cause, or lose it. If I gain it, nothing will be due to you according to the Sentence: If I lose it, nothing

nothing will be due to you according to our Covenant. Therefore, let the Canse go which Way it will, I shall pay you nothing.

2. What is a Profyllogifm?

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A. It is an Argument composed of two Syllogisms, so connected, that the Conclusion of the former is the Major or Minor of the latter; as,

Blood cannot think:

But the Soul of Man thinks:

Therefore the Soul of Man is not Blood.

But the Soul of a Brute is his Blood:

Therefore the Soul of a Man is different from the Soul of a Brute.

Q. What is a Sorites?

A. It is an Argument wherein feveral Middle Terms are successively

con-

connected in several Propositions, all the last Proposition connects its Predicate with the Subject of the first.—Such was the merry Argument of Themistocles, to prove that his little Son, under ten Years of Age, govern'd the whole World: My Songwerns bis Mother; bis Mother me; lithe Athenians; the Athenians the response of Greece; Greece commands Europe; Europe the whole World: Therefore my Son governs the subole World.

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In this Place it may not be improper to add a Syllogism call'd hdustion, wherein from several particular Propositions a general one is in-

ferr'd; as,

Purgatory cannot be proved from the Gospels; Nor from the Acts of the Apo-

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Nor from the Epiftles;

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Nor from the Book of Revelations: Therefore it cannot be proved from the New Testament.

These Kinds of Syllogisms, which have more than three Propositions, hay be call'd redundant; but there is defective or impersect Kind, call'd an Enthymem, which is the most common Sort of Argument both in Wring and Conversation.

2. What is an Enthymem?

A. An Argument confisting only of wo Propositions, wix. the Conclusion, and one of the Premisses, the other being suppress'd, as being sufficiently lear and obvious, and easily supplied the Understandings of Mankind; as,

True Religion is accompanied with good Morals:

Therefore a Knave is not truly re-

2. How are Syllogisms distinuish'd with respect to the MIDDLE ERM? K. A. Syl. A. Syllogisms, or Arguments, (for fo they are properly call'd as we now consider them) are said to be Grammatical, Physical, Moral, Theological, &c. according to the Art, Science, or Subject from whence we borrow the Middle Term, or Topic, which we make use of in the Proof of any Proposition. For Instance: If we endeavour to prove from the Principle of Reason and Equity, that no Massical state of the Science of Reason and Equity, that the Argument is Moral; but if we prove the same Thing from Scripture, the it is a Theological Argument.

2 Is this the only Distinction of h guments with regard to the Middle Ten

A. No; in this respect they a distinguish'd into Certain and Probable Artificial and Inartificial, Direct a Indirect.

2. What is the Difference between a probable and a certain Argument

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A. If I infer that Thomas will bring imself to the Gallows, because he ommits frequent Robberies on the Highway, this is a probable Argument, ot a certain one, for it is possible he nay die a natural Death. ro.

2. Have certain Arguments any

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A. Yes, they are usually call'd Deconstrations, because their Conclusions re founded on clear and undeniable rinciples; and they are generally diided into two Sorts: (1.) Demonrations à priori, whereby an Effect proved from a Cause; as, I prove be Scriptures to be true, because they ere dictated by the Spirit of God, who annot lye. (2.) Demonstrations à fleriori, whereby a Cause is proved om an Effect; as, when I view a atch, or other curious Machine, I wee onclude it was made by some Artier.-N. B. Though these are peculiarly K 2

Name is frequently given to any strong and convincing Argument.

2. What is an artificial Argu-

ment ?

A. That which is taken from the Nature and Circumstances of Things; and such an Argument, if strong, produces a natural Certainty.

2 What is an inartificial Argu-

ment ?

A. That which is founded on the Testimony of another: And Human Testimony, if strong, produces a moral Certainty; but Divine Testimony produces a fupernatural Certainty, which is of the highest Kind.

2. What is a direct Argument?

A. That wherein the Middle Term proves the Question itself, and infenthe Proposition which was the Matter of Enquiry.

2. What is an indirect Argument?

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A. An Argument is faid to be indirect or oblique, when the Truth of he Thing enquired after is made appear by proving or refuting some other Proposition. --- Indirect Arguments are of several Kinds, viz. (1.) When any Proposition is proved to be true by shewing the Falsity, Improbability, or Impossibility of some gu- contradictory Proposition; and when it is shewn, that if the original Propothe fition be supposed false, or denied, some great Absurdity will follow. This Logicians call a Proof per imony toffibile, or a Reductio ad absurdum. (2.) When some Proposition is proved to be true that is less probable, and thence it is inferr'd that the original Proposition is true because it is more fers probable. This is call'd an Argument ex magis probabili ad minus. (3.) When we prove the Truth of any Proposition, upon which our Adversary had K 3 be-

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before agreed to give up the Queficon. This is call'd an Argument ex concesso.

Are there any other Arguments which derive their Distinction from

the Middle Term?

A. Yes, several; whose Latin Names it may be proper to mention and explain, as they are frequently made use of by English Authors. (1.) An Argument founded on the profess'd Principles or Opinions of the Person with whom we argue is call'd Argumentum ad Hominem, an Address to our Principles or Profession. (2) An Argument drawn from the Nature or Existence of Things, and address'd to the Reason of Mankind, is call'd Argumentum ad Judicium, an Address to our Judgment. (3.) If it be built on some convincing Testimony, it is term'd Argumentum ad Fidem, an Address to our Faith. (4.) If an Argument

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ment be weak in itself, and yet an Adversary is not able to confute or answer it, this is call'd Argumentum ad Ignorantiam, an Address to our Ignorance. (5.) An Argument suited to engage the Inclinations and Passions, rather than to convince the Judgment, is call'd Argumentum ad Passiones, an Address to our Possions. (6.) When an Argument is drawn from the Sentiments of some great or learned Man, whose Authority we revere, and are asraid or asham'd to oppose, it is term'd Argumentum ad Verecundiam, an Address to our Modesty.

2. Have you any other Distin-

ction of Arguments to mention?

A. Only one, which arises from the Premisses, according to which an Argument is either Uniform or Mix'd. If both the Premisses are derived from the same Source of Knowledge, whether Sense, Reason, or any other, K 4

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an Argument is call'd uniform; but if the Premisses are derived from different Springs of Knowledge, it is

call'd a mix'd Argument.

Having thus given an Account of the chief Kinds of Syllogisms or Arguments made use of in just Reasoning, I now proceed to those call'd Sophisms or Fallacies, which appear to be true, but are really false at Bottom, and are invented with a Defign to embarrass and deceive.

CHAP. III.

Of the several Kinds of SOPHISMS, and the Method of solving them.

2. WHAT is a Sophism?

A. An Argument which carries with it the Face or Appearance

of Truth, and yet leads us into Miftake.

Q. How many Kinds of Sophifms

are there?

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A. They are very numerous, but may all be reduced to some of the

following Heads:

1. The first Sort is call'd by Logicians Ignoratio Elenchi, or a Miftake of the Question; that is, when something is proved which is neither necessarily connected nor inconsistent with the Thing enquired after. Instance, if the Question were proposed, Whether it be burtful to drink Wine to Excess; a Sophist might enleavour to prove it not hurtful, by arguing that Wine belps Digestion, aises a Man's Spirits, gives bim Couage, makes bim strong, active, and apable of enduring Hardships and Faigue: But though all this be granted, is easy to shew, that the excessive DrinkDrinking of Wine may be very prejudicial to him that drinks it, by bringing on Poverty, Diseases, and Death itself, as well as endangering his Happiness in the World to come.—It is a Fallacy of the same Kind, when a Disputant, finding his Adversary too hard for him, artfully turns the Discourse to some other Point which he can prove, (and which indeed his Opponent never denied) and then triumphs as if he had gain'd a considerable Advantage.

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z. Another Kind of Sophism is call'd Petitio Principii, a Begging the Question, or a Supposition of what is not granted; that is, when we endeavour to prove any Proposition by something equally uncertain and disputed. Thus a Papist pretends to prove his Religion the best, because it is derived from Christ and his Apostu, and agrees with the Doctrine of the Fathers

throughout all Ages: Whereas these are contested Points, and what Pro-

testants will by no means grant.

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3. A Fallacy of the same Nature with that last mention'd is the Circle; which is, when one of the Premisses of a Syllogism is question'd, and we attempt to prove it by the Conclusion; or when in a Train of Syllogisms we prove the last by the Conclusion of the first. Thus the Papists pretend to prove the Scriptures to be true by the Authority of their Church, and then to shew the Authority of their Church from the Scriptures.

4. There is another Kind of Sophism call'd non Causa pro Causa, or the assigning a false Cause. Scarce any thing is more common than this Sort of Fallacy. Astrology, or the Telling of Fortunes by the various Positions of the Stars and Planets, is

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built upon it: And it is a Sophism of this Kind, when Comets, Eclipses, Northern Lights, or such-like Phanomena, are supposed to foretel the Fate of Kings and Kingdoms, Wars, Famine, and other national Calamities. In the same fallacious Manner weak People are apt to judge of accidental Events: If a Man steals a Horse, and a Twelvemonth afterwards rides a hunting, is thrown off, and has a Leg or an Arm broke, it is presently imputed to the Divine Vengeance on him for the Thest it had committed.

5. The next Sophism, which is a kin to the former, and very frequent, is call'd Fallacia Accidentis, wherein, from something merely accidental to any Subject, we judge of its Natural and essential Properties. Thus, because a Neighbour, when over-heated with Exercise, receiv'd Injury by drinks

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by nkdrinking too large a Quantity of cold Water, we are apt to condemn it as absolutely unwholesome upon all Occasions. So Wine has been pronounced an evil Thing, and the Use of it forbidden, because it has been the accidental Cause of Quarrels and Bloodshed.

6. Another Sophism of the same Nature is when we argue from that which is true in particular Circumflances, to prove the same thing true absolutely and fimply, without any Circumstances being consider'd; as if we hould fay, What we buy of the Butther we eat for Dinner: But we buy raw Meat of the Butcher: Therefore we eat raw Meat for Dinner .- The Reverse of this Sophism is arguing from what is fimply and absolutely true, o prove the same true in all partiular Circumstances; as if I should wrest a Sword out of the Hand of an Enemy

Enemy going to stab me, and he should argue that I ought to give it him again, because no Man should with-

bold another's Property.

7. We now come to the Sophifms of Composition and Division, which are the Reverse of each other. When an Inference is drawn from Ideas in a compound Sense, which is only true in a divided one, this is a Sophism of Composition; as if a Man should argue thus: Two and three are even and odd: Five are two and three: Therefore five are even and odd. On the contrary, to infer a thing concerning I. deas in a divided Sense which is only true in a compound one, is a Sophism of Division; as if I should say, Five is one Number: Two and three are five: Therefore two and three are one Number .- A Sophism of the same Kind is fometimes committed by not rightly distinguishing between the collective and

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and distributive Sense of the Word All; or by making All or No refer to Species in one Proposition, and Individuals in another.

8. The Sophisms arising from the Ambiguity of Words are more numerous than those of any other Kind; and indeed several of the Fallacies already mention'd might be comprehended in this Class. If we make use of Words or Phrases plainly equivocal, it is a Sophism of Equivocation; as if any one thould argue thus: A Church is a Building of Stone: But a religious Assembly is a Church: Therefore a religious Assembly is a Building of Stone. Here every one fees, that the Word Church bears a very different Signification in the Major Proposition from what it does in the Minor, and therefore the Syllogism proves nothing at all. But we need not enlarge upon this Head, fince there

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there is little Danger of being imposed upon by such gross Equivocations, which a Person of common Sense discovers as soon as they are proposed, though perhaps he cannot shew the Fault of the Syllogism by the Rules of Logic.

2. But is there no general Test of true Syllogisms, and a Method of folving all sophistical Arguments?

A. Yes, there are two general Mithods of reducing all Syllogisms to a Test of their Truth or Falshood.

2. Which are they?

A. The first is this: In a just Syllogism one of the Premisses must concentrain the Conclusion, and the other must show the Conclusion to be so contain'd. This will appear by confidering the following Example: Whosever bridles his Passions is wise: But a virtuous Man bridles his Passions! Therefore a virtuous Man is wish.

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Here it is plain that the Major Proposition contains the Conclusion, because under the general Character of one who bridles his Passions, the virtuous Man is undoubtedly included. This is shewn or declared in the Minor Proposition; and thence the Conclusion is evidently deduced, that a virtuous Man is wife.—N.B. It is not always necessary that the Major Proposition should contain the Conclusion; in some Syllogisms the Minor contains it, and the Major shews it.

The second general Test of Syllogisms is this: As the Terms in a Syllogism are usually repeated twice, so they
must be taken precisely in the same
Sense in both Places. It is generally
some Difference in the Sense of one
of the Terms in the two Parts of a
Syllogism that renders it unconclusive
and tallacious, as appears by considering the following Sophisms. (1.)

L Nathing

Nothing is better than Heaven: But a Penny is better than nothing: There. fore a Penny is better than Heaven This Sophism is evidently founded on the different Signification of the Ten Nothing, it being used in a positive Sense in the first Proposition, but in quite opposite or negative Sense in the fecond. (2.) It is a Sin to kill a Man But a Murderer is a Man: Therefore it is a Sin to kill a Murderer. Ha the Sophism lies in the different Sente of the Word kill; it being used i the first Proposition to fignify killing Rus ves, unjufly, or without a Law; and be ing taken absolutely in the Conclusion ar as itions for putting a Man to Death in general

Thus much for the various King gume of Sophisms .- I shall conclude the Part of Logic with fome gent be a Rules to affift our reasoning Powers

their Enquiry after Truth.

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CHAP. IV.

meral Rules to direct our REASON-

HICH are the best Rules to direct us how to reason well?

A. The Directions given in the eceding Part of Logic to form our dyments aright will also be of Serte to direct our Reasoning; but we sy draw some farther Assistance in a Respect from a careful Observan of the following Rules.

RULE I. We should accustom ourves, even in our younger Years, to
ar and distinct Ideas, to evident Prolions, and to strong and convincing
guments. A Habit of conceiving
arly, and reasoning strongly, is not
be attain'd by a Set of logical Prets, a Happiness of Constitution,
a Brightness of Genius: Such a
bit must be form'd and establish'd
Custom and Practice, which there-

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fore we should begin in the early h of our Life.

RULE II. Endeavour to enla your general Acquaintance with This in order to furnish yourself with Pla of Topics, or Middle Terms, to m use of in your Syllogisms; and diliga fearch into and confider the Nat Properties, Circumstances and Relat of the particular Subject about al you are arguing or judging. The extensive Survey possible of our w Subject is the best Security against confishencies; for it is arguing up partial View of Things that lead into frequent Mistakes and Absurdi

RULE III. While you are any upon any Subject, be fure to keep the cife Point of the Question always in I and neither add to it, nor omit any of it. By thus keeping to the in Matter of Enquiry, you will be fee from impertinent Answers and raft

terminations.

RULE IV. Having well confid what is unknown in the Question; n consider bow much you know of it eady, or of the Ideas and Terms ereof it is composed. By comparing known and unknown Parts of a estion together, we find what Contion they have with each other; the Ideas by which they are conted will furnish us with Arguments: when we make this Comparison, must take care not to be too hast? determining, especially in Matters Importance, left our Conclusion uld be Fancy, instead of real ath.

RULE V. In chusing our Arguits, we should always take such as
furest, and carry with them the
atest Ewidence. Remember that it
he Weight of Arguments, not their
mber, which is chiefly to be reied, especially when the Thing to

be proved admits of natural Certainty and Demonstration: But in Cases where we cannot go beyond Probability or moral Certainty, the Number of Arguments increases the Degree of Probability, and gives us a greater Assurance of the Truth of what is proposed.

RULE VI. If we are to prove any Conclusion we have made, we should do it (as far as possible) by I'ropositions that are still more plain and certain, at least more known and intelligible to the Person whom we are endeavouring to convince. The Reason of this is evident; for every one sees the Folly of attempting to explain one Obscurity by another, or to consist what is doubtful by something equally or more uncertain.

RULE VII. Let your Arguments tend to enlighten the Understanding, as well as to captivate the Judgment.

That

That is, let them not only force the Affent, but also illustrate the Point in Question, so as to make it better understood.

RULE VIII. Take care to distinguish between an Explication and an drgument, between a mere Illustration and a solid Proof. Proper Similies and Allusions are often useful in explaining and giving Light to a Subject, but we should not mistake them

for conclusive Arguments.

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RULE IX. In all our Reasonings let us pursue Truth with Sincerity, and follow it wheresoever it leads us. In our Search after true Knowledge we should not be diverted or influenced by any Passion or Prejudice; nor should we determine on either Side of a Question, till we have well weigh'd the Arguments and Objections on both.

L 4 PART

PART IV.

Of Disposition, or Method.

2. W HAT is meant by Dis-POSITION, the Fourth Part of Logic?

A. DISPOSITION, or the Art of METHOD, is the Ranging a Variety of Thoughts on any Subject in such an Order as is sittest to gain the clearest Knowledge of it, to retain it longest, and to explain it to others in the best Manner. Or, it is the Disposing our Thoughts in such Order as to be most easily conceived and remembered by our selves and others.

2. What Inconveniencies arise from

the Want of Method?

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A. Without it, Confusion, Darkness, and Mistake will unavoidably attend our Thoughts and Discourses.

CHAP. I.

Of the Several Kinds of METHOD.

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2. HOW many Kinds of Method are there?

A. Method is distinguish'd into two general Kinds, viz. Natural and Arbitrary.

2. What is Natural Method?

A. It is that which observes the Order of Nature, and proceeds in such a Manner, as that the Knowledge of the Things which follow depends in a great measure on the Things which go before.

2. Is not this Method twofold?

A. Yes, it is either Analytic or Synthetic.

2. What

2. What is Analytic Method?

A. The Analytic Method, or Method of Refolution, is what we generally use in our Enquiries after Truth. It begins with the whole Compound, and then leads us into a more persest Knowledge of it, by resolving it into its first Principles or Parts, and shewing its Nature and Properties. Thus we are first acquainted with the whole Body of an Animal, and afterwards come to the Knowledge of its several Parts by Anatomy or Dissection.

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2. What is Synthetic Method?

A. The Synthetic Method, or Method of Composition, is that whereby Truth, when discover'd, is usually taught or imparted to others. This begins with the Parts, and so leads on to the Knowledge of the Whole; it proceeds gradually from the most simple Principles, to that which is drawn

drawn from or compounded of them. Thus having learnt the Letters of the Alphabet, we join them to make Syllables, of Syllables we compose Words, and of Words we make Sentences and Discourses.

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2 How do you farther explain the Difference of these two Methods?

A. They differ from each other as a Way which leads up from a Valley to a Mountain differs from itself, when confider'd as leading down from the Mountain to the Valley. The one is like tracing a Genealogy by descending from the Ancestors to the Posterity; the other like the contrary Method of ascending from the Posterity to the Ancestors. Thus the Difference between the Synthetic and Analytic Method is plain and obvious; but as the Subjects of Knowledge are infinite, and the Ways of obtaining it almost infinitely various, the precise Di.

Distinction between these two Methods cannot always be maintained; and in many Cases they are mix'd toge. ther, and both employed in fearthing after and communicating Truth. Up. on the Whole, neither of these Me. thods should be too scrupulously obferved, either in our Investigation of Truth, or the Communication of it to others: It is sufficient, if we so far keep to the Order of Nature as to make the Knowledge of Things following depend on the Knowledge of those that go before. A mix'd Methed will oftentimes answer these Purpofes most effectually; and indeed all Method whatfoever must be regulated by a judicious View of, and Attention to, our chief End and De-

2. What is meant by Arbitrary

Method?

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A. It is that which leaves the Order of Nature, and is not confin'd to any certain Forms, but accommodates itself to various Purposes; whether it be to affift the Memory, to persuade, delight, or amuse the Reader or Hearer. This Kind of Method is chiefly used by Orators and Poets, who fometimes omit Things effential to the Subject which they apprehend would be displeasing, and run into beautiful Digreffions or needless Circumstances, which have little Relation to the Point in Hand, but are adapted to allure and entertain the Mind. In a Word, they artfully invert the Order of Times and Actions, placing the first last, and the last first; and fo manage it as to fet every thing in the most affecting Light, and captivate the Senses and Passions of Mankind.

CHAP.

CHAP. II.

The Rules of METHOD.

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2. WHICH are the best Rules to be observed in Natural

A. The most important Rules of true Method, whether Analytic or Syn-

thetic, are the following.

RULE I. Good Method should be fafe and secure from Error. To this End our fundamental Propositions must be well-grounded, our Arguments strong, and drawn up with so much Caution, as to prevent (if possible) all Objections.

RULE II. Our Method should be plain and easy, that so it may exhibit a clear and comprehensive View of the whole Design. In order to this we must begin with Things that are most known and obvious, and proceed by

y gentle Steps to Things that are nknown and difficult; always endeaouring to express our Conceptions in clear and easy Manner. We should on the over-hasty either in Learning or Teaching; not fond of crowding on many Thoughts into a little Compass, or of running into numerous subdivisions.

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ed by RULE III. Our Method should be listinct, and free from any Mixture hat might introduce, Perplexity and Confusion. No Arguments must be sted that are entirely foreign to the subject; every Idea must be divided no its Parts, as far as is requisite to he present Design; every Argument must be ranged in its proper Class; and in the Partition of a Discourse we hould take care that particular Heads to not interfere with the general, for with each other.

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RULE IV. Good Method Should be no full, so that nothing may be wanting that is necessary or proper. In explaining a Subject we should not skip over what is difficult or obscure; nor be deficient in enumerating its Parts of Properties. In illustrating a difficult Point we should not be sparing of efs Words, but rather diffusive; and is a Narrative we should omit no in portant Circumstance. By Fulness of Method, however, is not meant that every thing should be faid that can be faid upon any Subject, but only what is necessary or has a direct Tendence to the Defign in View.

RULE V. Our Method Should b brief, (fo far as is confiftent with the foregoing Rule) and free from ever thing superfluous and impertinent. T this End we must guard against a to dious Prolixity, avoid needless Repa titions, Explications where there

no Obscurity, Proofs and Refutations where the Case requires none, useless formalities, and long or frequent Dibe Medium to be observed in our Me-hod; so that our Brevity may not hod; so that our Brevity may not

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cut ender us obscure, nor our Copiouscut ender us obscure, nor our Copiouscut ess tedious and trisling.

RULE VI. We must adapt our
im Method to the Subject in hand, to our
sing resent Design, and to the Age and resent Design, and to the Age and the lace we live in. All Subjects are not be be handled in the same Method; what and if we treat the same Subject with end ifferent Views, we shall find it necesry to use different Methods. Some ry to use different Methods. Some the Custom of the Age, and to e Humour and Genius of our Readever T s or Hearers; though we must no means suffer ourselves to be so influenced thereby, as to neglect M thole

those Rules of Method which are absolutely necessary to find out Truth, or communicate it to others.

RULE VII. Good Method require that the Parts of a Discourse stould be well connected. In order to this, we must always keep our main Design in View, and let every Particular (as far as possible) have a visible Tendency towards it. The mutual Relation and Dependence of the several Parts of a Discourse should be so just and evident, that each may naturally lead on to the next, and be join'd to it by some proper and graceful Form of Transition.

We are now come to the End of our little Treatife of Logic, which we have endeavour'd to render a complete as our narrow Limits would permit: But we think it will neither

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hich r as ould ither be impertinent, nor unserviceable to the young Scholar, to add here (by way of Supplement) some short Account of the Academic and Socratic Methods of Disputation.

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CHAP. I.

Of ACADEMIC or SCHOLASTIC DISPUTATION.

HAT do you mean by the Academic Method of Disputation?

A. I mean the Method in which

Disputes are usually managed in his demies or Schools of Learning.

2. In what Manner is this done?

A. First of all the Tutor appoints a Question in some of the Sciences, to be debated amongst his Students; one of whom undertakes the affirmative or negative Side of the Question, and is to defend his Assertion or Negation, and to answer all Objections against it. Hence he is call'd the Respondent; and his Fellow-Students, who are appointed to raise Objections and carry on the Dispute against him, are call'd the Opponents.

Before the Time appointed for this Exercise, the Respondent writes a Thesis, or short Discourse on the Question proposed, which he reads at the Beginning of the Dispute. In this Discourse he explains and fixes the Sense of the Terms of the Question, declares its true Intent and Meaning, and separates and distinguishes it from those with which it has been compliment.

cated, or to which it happens to be related. This done, he affirms or denies it, according to the Opinion of the Tutor, which is supposed to be the Truth.—In the second Part of this Discourse he produces his strongest Arguments in Desence of his own Side of the Question, and then leaves the other Students to object against it.

The Respondent having read over his Thesis, the youngest Student makes an Objection, which he draws up in the Form of a Syllogism. This Objection is repeated by the Respondent, who either denies one of the Premisses directly, or distinguishes upon some Expression in the Major or Misor, shewing in what Sense the Proposition may be true, but denying it to be true in the Sense which assess the Question in Dispute.

The Opponent then proceeds by another Syllogism to vindicate the Proposition which the Respondent denied; and the Respondent again answers, either by denying or distinguishing: And thus the Disputation is carried on by successive Syllogisms and Answers, till the Opponent has no more to say.

The first being silenced, the next Student proposes his Objection; then the third, fourth, fifth, and so each in his Turn according to Seniority, till it comes to the oldest Student, who

is the last Opponent.

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During this Time the Tutor fits in a Chair as Prefident or Moderator, whose Business is to see that the Rules of Disputation and Decency are observed on both Sides, and to admonish those who are guilty of any Irregularity. He is also to explain, strengthen, or correct the Respondent's M 4

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Answers, as he finds Occasion; and if the Respondent be at a Loss, he assists him by suggesting some Answer to his Opponent's Objection. But this is not done in publick Disputes, where the Disputants chuse their own Side of the Question; for in such Cases the Moderator neither favour the Respondent nor Opponent, but only takes care that they observe the Laws of Disputation.

2. Which are the Laws of Dif-

putation?

A. The Laws to be observed by the Opponent are these which follow:

1. He must directly contradict the Respondent's Proposition, and not merely attempt to consute the Arguments by which it is supported. 2. He must contradict the Proposition as the Respondent has stated it, and not in any other Sense.

3. His Argument must be proposed in the Form of a Syllo-

Syllogism, agreeable to the Rules of Logic, and without any Fallacy whatsoever. 4. It is best for the Opponent to draw his Objections from the
Nature of the Question itself; tho'
it is also allowable for him to attack
the Respondent by indirect Arguments,
5. If the Respondent denies any Proposition, the Opponent must directly
defend it, by making it the Conclusion of his next Syllogism. 6. When
the Respondent limits or distinguishes
any Proposition, the Opponent must dicettly prove it in that very Sense
wherein the Respondent denied it.

2. Which are the Laws that oblige

he Respondent?

A. They are thefe. 1. He must repeat the Opponent's Argument before he attempts to answer it. 2. If a Syllogism be faulty in its Form, he must shew where the Fault lies according to the Rules of Logic. 3. If the

the Matter of an Objection be faulty in any Part of it, he must grant what is true in it, and deny what is falle. 4. If his Opponent's Argument does not directly affect his Proposition, he must expole its Weakness, by shewing it might be admitted without any Prejudice to his own Thefes, 5. If an bypothetical Proposition be false, he must deny the Consequence; if a difjundive one, he must deny the Disjunction, &c. 6. After the Respondent has answer'd directly, he is sometimes permitted to answer indirectly; and also to shew how the Opponent's Argument may be retorted upon himfelf.

2. Which are the Laws that oblige both Respondent and Opponent?

A. These that follow. I. Certain general Principles, relating to the Question, should first be agreed on by both the Disputants, 2. When the State

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State of the Controversy is well known and determined, neither of them must alter it in the Course of the Disputation. 3. Neither of the Disputants should invade the Province of the other. 4. The one should not interrupt the other, but wait patiently till he has done speaking.

2. What Advantages are to be gain'd by this Sort of Disputation?

A. It gives a proper Degree of Courage to those who are too modest and distrustful of their own Abilities, and procures a Freedom and Readiness of Speech. It makes a Student inore expert in vindicating Truth and refuting Error; in warding off Objections, and discovering the subtil Arts of Sophisters. In a Word, it gives Vigour and Briskness to the Mind, makes the Thoughts active, sharpens the Wit, and quickens all the Powers of Invention.

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2. Are there no Inconveniences a rifing from Scholastic Disputation?

A. Yes, fome very great ones; for Experience shews, that by a Habit of disputing many young Students grow impudent, proud, unfeafonably talkative, obstinate in maintaining their own Affertions, and ready to contradict almost every thing afferted by others. It is also plain that by this Sort of Exercises, wherein the same Persons are sometimes on the Side of Truth and fometimes against it, the Mind becomes infenfibly wavering and unfettled, and is in Danger of falling into a fceptical or doubting Hu-mour. Add to this, that in Scholastic Disputations the Opponents being all warmly employed in finding Arguments against the Truth, if one of them happens to invent a plaufible Sophism, and manage it so as to puzzle the Respondent, and perhaps the ModeModerator himself, he is tempted to suppose his Argument unanswerable, and so his Sentiments become engaged in favour of Error instead of Truth, which last is supposed to be maintain'd by the Respondent.

2 Which are the best Means to

prevent these Inconveniences?

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A. The Observation of the following Directions in Scholastic Disputes may be of some Service to prevent the ill Consequences that too often attend them. 1. Never dispute about Things not worth the knowing, but upon useful Subjects. 2. Dispute not about Matters beyond the Reach of Human Capacity, or about Words without Ideas. 3. Let not obvious and known Truths be brought into Dispute, merely to try the Skill of the Disputants. 4. To find out Truth should be the End of Disputation, not a Defire of Glory or Triumph OVEL

over an Adversary. 5. Let not the Respondent endeavour to avoid the Force of his Opponent's Objections; nor let the Opponent study to darken and confound the Answers of the Re-Spondent. 6. To this End let both of them express their Thoughts as clearly and diffinctly as possible, and be as brief as is confiftent with Perspicuity. 7. They ought not to indulge Ridicule, nor use Jests or Witticisms, especially if the Subject be ferious or divine. 8. They should abstain from all Sarcasm, Reproach, perfonal Scandal, and infolent Language. 9. When the Truth evidently appears on either Side, let them readily yield to Conviction; but let not the Victor (whether it be Respondent or Opponent) triumph or infult over his vanquish'd Adversary.

CHAP. II.

Of the SOCRATIC Method of DIS-

2. W HAT is meant by the Socratic Method of Dispu-

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A. It is a Method which derives its Name from Socrates, an ancient Athenian Philosopher, by whom it was practised, and by other Philosophers in his Time, long before Aristotle invented the Forms of Syllogism in Mood and Figure, now used in Scholastic Disputations.

2. How is a Dispute carried on in

the Socratic Manner?

A. By Way of Question and Anfwer, representing the Form of a Dialogue or common Conversation, wherein the Person who instructs seems to be the Enquirer, and seeks In-

Information from him who is in-Aructed. If the Person with whom we argue makes use of obscure or ambiguous Words, we must ask him to explain his Meaning; for it often hap. pens, that Men have accustom'd themfelves to some Words or Phrases which they do not perfectly understand; and then by a few modest Questions they will much better discover their Igno. tance, than by a direct Opposition, which often raises the Passions, and fluts a Door against Conviction. When we have gone thus far, if the Pet. fon be a fincere Lover of Truth, he will presently acknowledge that he did not fufficiently understand the Matter, and then the Dispute is at an End: But if he is obstinate, and will obtrude his Words upon us without defining them, we ought to proceed no farther till he has fatisfied us what he means. We must press him with Little

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little Questions, as if we were dull-of Apprehension, and should be glad to understand him better: But if we can by no means prevail with him to speak plainly, it is Time to put an End to the Dispute; since it is evident he knows not what he would be at, or has only a mind to wrangle. If at aft we bring him to declare his Meaning clearly, we then proceed to afk him Questions upon the feveral Parts f the Doctrine he advances, and heir Confequences not as objecting gainst them, but for the fake of beter Information. | From thefe Queions, if proposed with Dexterity, it ill eafily appear whether the Dotrine be abfurd or not; and to make he Matter fill clearer, it will be proer to use Examples and Similitudes & ut if this be not fufficient to shew e Falfity of the Opinion, we mult quire of the Person on what Arguments then purfue the fame Conduct as we did in the fift Part of the Dispute. Thus the Learner will be led into the Knowledge of Truth as it were by his own Invention, and being drawn by a Series of pertinent Questions to discern his Mistakes, he will more easily be induced to relinquish them, as he feems to have discover'd them himself.

or two of this Method of Disputa-

A. Yes; we will suppose two Perfons (M. and M.) disputing upon the Efficacy of the Divine Providence with respect to the Actions of Men.

M. Mon fay, that God has an efficacion Operation in the Sins of Mas:
Do you mean that he makes Sin?
I.M. Far be it from me, for then
God would be the Author of Sin.

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M. Do you mean that God forces

Men to commit Sin?

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N. No, the Expression is too harsh; but God in an unknown and secret Manner so permits Sin, that it must necessarily be committed.

M. At first you used the Word Operation, now you use permit; pray

do they fignify the same Thing?

N. They do not absolutely mean the same Thing; but they must be join'd together, so that what God does should be call'd an efficacious Permission; for God neither makes Sin, nor does he simply permis it.

M. Then you mean that God permits fomething, and does fomething,

to that Sin necessarily follows.

N. You have hit my Meaning.

M. Perhaps therefore God does in this Case what a Man does who cuts down a Dike, and lets the Sea overlow the Fields; for he does something

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in breaking the Dike, and permits fomething in letting the Water run through the Breach:

N. The Similitude expresses my

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Opinion very exactly.

M. But pray who blames the Sa or the Dike for this Inundation? And, if I mistake not, Man is no more to be blamed when he commits Sin, (according to your Doctrine) than the Sca or the Dike.

N. You do not observe the van Difference there is between the Things themselves: Men are endued with Under flanding and Will, which the Dike and the Water have not; and therefore that is a Crime in Man, which is not so in the Sea and the Dike.

M. But I defire to know, whether that which God does or permits has fuch an Efficacy, that Men can no more not Sin in Consequence of it, than the Water can refrain from flow

ing through the Breach which affords it a free Paffage?

N. That is what I mean.

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M. Therefore, according to you, there is the fame Relation between God and the Sins of Men, as there s between the Man who made a Breach in the Dike and the Inundation which follow'd it.

N. There is, as to the Event, for

both are equally necessary.

M. Then, according to our common Way of speaking, the Action of both may be express'd in the same Manher: That is, as the Man who broke down the Dike is properly faid to nich be the Cause of the Damage done by he Inundation, because he did that which necessarily produced it; so God according to your Doctrine) is the Author of Sin, because he has put Man under a Necessity of finning.

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W. I cannot withstand the Force of your Reasoning; I am now the roughly sensible of the absurd Consequences of my Opinion.

To make the Socratic Way of disputing still better understood, let us consider another Example. Suppose M. would lead N into the Belief of a future State of Rewards and Punishments, it might be done in the following easy Manner of Reasoning.

M. Did God make the World?

N. Certainly he did.

M. Does God govern the World?

N. As he made it, 'tis reasonable

to suppose he governs it.

M. Is not God a good and rightens

N. Doubtless he is. at much

M. What is the true Idea of a god

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N. That he punifles the Wicked, and rewards the Good will be a later to

M. But are the Wicked always puhished in this Life the ducha d

N. No, every one's Observation tells him the contrary; for the worft of Men are oftentimes advanced to Riches and Honour, and have all the external Comforts that the World afhave fone Exiftence after this Librar

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M Are the Good always rewarded in this Life. lo mand a god floor small

N. No certainly; for Poverty, Perfecution, and various Kinds of Affliction, are often the Lot of the most Rightsooffnel of God Men. bod do Anniostagia

M. How then does lit appear that God is good and righteous? The used

N. I confess there is but little Appearance of it in the prefent State of Things, beddeleng and and air

M. Will there not be a Time then when the Scene of Things will be changed

N 4

changed, and God will make his Goodness and Righteousness in the Government of Mankind appear.

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N. Undoubtedly fuch a Time will

come.

Death, how can it be done at all?

No other Way, that I can think of, but by supposing Man to have some Existence after this Life.

M. Then you are convinced that there must be a State of Rewards and Punishments beyond the Grave?

ed off it; fince the Goodness and Righteousness of God, as Governor of the World, cannot be made appear without it.

This Method of Reasoning, though it has been long neglected, is certainly a natural and pleasing Manner of Instruction, and is much more as green

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greeable to that Candour and Sincerity which every honest Man ought to propose, than the Art of Wrangling which for several Ages prevail'd in the Schools, and tended to overspread the Minds of Youth with Darkness and Uncertainty, and retard or mislead them in their Enquiries after Truth.



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ble to that a dour and Sheet is every hear Man ought to pole, then the dry of Wrom the heart here of thomather schools, and anded to everly east at Uncertainty, and retail of them in their Beauties after them.

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Science of Being in general;
With its Affections.

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Metaphysics.

CHAP. I.

Of BEING and NOT-BEING, and of the Modes or Affections of Being in general.

HAT is ONTOLOGY?

A. It is a Science which confiders Being in general, its various Modes or Affections,

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fections, and its several Kinds or Di-

2. In what Sense do you use the

Word Being?

A. So as to include not only whatfoever is, but whatfoever can be.

2 What is meant by Not-being?

A. If we confider it as excluding all Substances and Modes whatsoever, it is then Nibility or mere Nothing: But as it excludes particular Modes or Manners of Being, it may be confider'd either as a Negation, such is Deafness in a Stone; or as a Privation, such is Deafness in a Man. - N.B. Pure Nothing, confider'd in itself, has neither Being nor Affections, and yet it is evident we can frame some Son of Notion or Idea of it, fince we can reason and discourse about it: But out Imagination now and then leads us to miltake Nothing for Something, as in the Case of Darkness or Shadowi which

which are only the Absence of Light; ind on the other hand we sometimes nistake Something for Nothing; as when we say a Room has nothing in it, hough it benfull of Light and Air.

2. What is meant by the Affections

of Being A

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A. All the Properties, Powers, Acidente, Relations, Qualities, Aduncts, Conditions, Circumstances, or
considerations of Being whatsoever;
hat is, all that vast Variety of Modes
which belong to Things, either as
hey are in themselves, or as they
re related to other Things, or as
hey are represented by our Concepions and Ideas.

2. As the Affections of Being are various, how are they best distinuish'd?

A. The most general and extensive Distribution of them is into absolute and relative.

2. What

Q. What do you understand by ab-

Being confider'd in itself; and these are Nature of Essence, and Existence; Duration and Unity; Power and As.

2. What are relative Affections?

A. Such as arise from the Relations in which different Beings stand to each other, or to some Part or Property of themselves: And these Relations may be subdivided into real and mental.

2 Which are real Relations?

A. Those which are founded in the very Constitution of Things, and always subsist whether we think of them or not. Such are the Relation between a Whole and its Parts, Caula and Effect, and several others; of which more hereafter.

Q. Which are mental Relations?

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A. Such as do not arife from the Nature of Things themselves, but from the Manner in which the Mind ele thinks of them, and refers them to ces one another. Of this Kind are our soft abstracted Notions, Signs, Words, c. as will be explain'd by and by.

CHAP. II.

Of Essence, or NATURE.

INTHAT is meant by that ab-Solute Affection of Being Il'd Nature or Essence?

A. It confilts in a Union of all ofe Things, whether Substances, or odes and Properties, which are nestary to make a Being what it is. hus it is the Nature or Essence of a rove to be a Spot of Ground thick with Trees; and of a Triangle to bave three Lines so join'd as to make three Angles.

2. Is the Essence of a Being so immutable, as that the least Alteration in it makes that Being something

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else than it was before?

A. The Essences of mathematica Beings (which are only a Kind of ab stract Ideas) are immutable; for it i plain that the least Alteration in Triangle, a Square, or a Circle, would make it lose its Nature, and cease t be that Figure. But the Essences natural Beings as well as artificial are not fo unchangeable; for a In may still remain a Tree, though fom of its Branches be lopp'd off; and Door is still a Door, whether it painted blue or green. We may of ferve however, that if the Alteration be very great, it will be fometime hard to fay whether the Thing ! sains the same Estence, so as to fen

erve the same Name; for you may radually leffen the Brims of a Hat. r cut it into fuch a Shape, till you vill scarce know whether to call it a lat or a Cap.

2. Wherein does the Essence of very particular Kind of Body con-

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A. In Matter and Form.

2. What is Matter?
A. It is that folid extended Subance of which Bodies are made, hich feems to be uniform and the e fame in all.

2. What is Form?

A. The Word includes all those uliar Qualities, both real and fenle, which make any particular Body what it is, and diftinguish it from other Bodies.

2. What is the Difference between and sensible Qualities?

A. The

A. The Shape, Size, Situation, Motion and Rest of Bodies are call'd their real or primary Qualities, because they do and would belong to Bodies, whether there were any sensible Being to observe them or no: And from the different Combinations and Dispositions of these primary Qualities arise the Colour, Tase, Smell, Hardness, Cold, Heat, &c. of Bodies, which are call'd secondary or sensible Qualities, as being Ideas or Modes which we attribute to Things merely as they affect our Senses.

2. Is there no Diffinction made a

to the Matter of Bodies?

A. Yes, the Matter of a Body i faid to be either proxime or remote Thus the proxime Matter of a Bool is Paper, Ink, and Covers; but the remote Matter is that whereof the Paper, Ink, and Covers are made.

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2. Is the Term Nature always taken in the same Sense as Effence?

A. No; by Nature is sometimes. meant the eternal and unchangeable Reason of Things: Thus it is necesfary in the Nature of Things, that three and three should make fix, and that a Part should be less than the Whole. Sometimes this Term fignifies the constant Course and Order of fecond Causes, and the Laws of Matter and Motion which Gop the first Cause has establish'd: And Things which go on in this Course are said to be according to Nature; as the Production of Grapes by a Vine, the Succession of Day and Night, &c. But when Things deviate from this Course. they are faid to be beside Nature, as Monsters; or above Nature, as Miracles; or contrary to Nature, as when the Stock of an Apple-tree brings forth Pears

Pears by virtue of a Graft taken from a Pear tree.

CHAP. III.

Of EXISTENCE.

2. Y OU mention'd Existence as an absolute Affection of Being:
Pray how is it distinguish'd from Establishment.

Sence ?

A. As the actual Being of a Thing is distinguish'd from its mere Nature consider'd as possible. What really is in Being has both Essence and Existence; what possibly may be can be said to have an Essence only.

Q. In what Sense is a Being said

to be possible?

A. When the Ideas we form of fuch a supposed Being have no Inconsistency, but may be actually united, as a Mountain of Gold, or a River

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River of Oil: But when the Ideas are inconsistent with each other, and cannot be united, such a Being is call'd an Impossible; as cold Fire, or filent Thunder.

2. How are Impossibles distin-

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A. Into four Kinds, viz. 1. Some Things are metaphysically or absolutely impossible, in the abstracted Reason and Nature of Things; as a Square Circle, a green Sound, a thinking Sign-post, or a Bushel of Souls. 2. Others are phyfically or naturally impossible, that is, according to the present Laws of Nature; as a Day in our Latitude thirty Hours long, or three Eclipses of the Sun in a Month. 3. Others are morally impossible, that is, improbable in the highest Degree; as that a Man' should throw the same Number with three Dice a hundred times successively, or that an Atheist should be strictly virditionally impossible, that is, made so by a certain Condition; as that a Tree should bear Fruit supposing it has no Bloom.

2. Is there any farther Distinction

of Existence?

A. Yes, Existence is said to be either necessary or contingent, dependent or independent.

2. What is the Meaning of these

Terms?

A. Things which are because they must be have a necessary Existence; but those which might not have been, and may cease to be, have only a contingent Existence. A necessary Being is without a Cause, and independent; but a contingent Being is the Effect of a Cause, and dependent thereon.

2. To what Beings do thefe Ideas

belong?

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A. Independence and Necessity of Existence, taken in the highest Sense, belong to God alone, whose Existence is absolutely necessary, and without any pre-existent Cause: But a Sort of conditional Necessity may be ascribed to Creatures; that is, such a Creature must exist if the Causes are put which will necessarily produce it; as, if a Hen's Egg be batched it will produce Chicken.—Here it may be proper o observe, that Beings are said to be uceffary or centingent, not only with egard to their Existence, but to the Manner of it also. Gop is necessary n this Respect, as well as in the ther; and therefore he is unchangeble: But as to Creatures, their Maner of Existence is contingent, and perefore they are changeable Things.

2. What Distinctions are made of

A. It is distinguish'd into natural, logical, and moral. By natural Necessity Water congeals with Cold, and Ice melts with Heat. By logical Ne. ceffity a Conclusion flows from the Premisses of a Syllogism. By moral Necessity Virtue will be finally reward. ed, and Vice punish'd; and 'tis morally necessary that intelligent Creatures should worship their Creator. -It is to be observed, that both No. cessity and Contingence are frequently applied to Events in the Natural World; but those in the Moral World are usually call'd contingent, being the voluntary Actions of intelligent Beings,

Q. How are Necessity and Contingence applied to the Events you speak

of?

A. Events in the natural World are faid to be necessary, when the are derived from the Connection of fecond

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mplies xisten fecond Causes, and those Laws of Motion which God establish'd at the Creation: But they are said to be contingent, or to arise from Chance, when they come unexpectedly, and are different from what is usual in the Course of Nature.

CHAP. IV.

Of DURATION.

2. WHAT is meant by that abfolute Affection of Being which is call'd Duration?

A. Nothing more than a Contiuance in Being; and this is divided

nto permanent and successive.

Q. What is permanent Duration?
A. This State of Being (strictly peaking) belongs to God alone, and applies not only his Continuance in xistence, but an universal and endless

less Possession of the same unchangeable Powers and Properties.

Q. What is successive Duration?

A. This belongs to Creatures, and implies the Continuance of the fame Being, though its Modes, Powers, Properties, and Actions are successively changing.

2. How can there be any Dura-

tion without Succession?

A. We cannot easily conceive how there should; but this Sort of Duration is God's Eternity, which has some Things in it above our narrow Conceptions—It is successive Duration only that can properly be divided into Past, Present, and Future. The Present, in a strict Sense, is only the single Moment that now exists, and divides the Years or Ages past from those which are to come.

2. Whence have Creatures this

Affection of Duration?

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A. As Creation gives them Existence, so Conservation is said to give
them Duration, i. e. a Continuance
in Being. The latter is an Exercise
of God's Almighty Power, as well as
the former; and how far they differ,
or whether they differ at all, is not
our Business to enquire.

CHAP. V.

Of Unity and Union.

WHAT is the Meaning of Unity, another absolute Af-

fection of Being?

A. Unity is that whereby any Thing flands as it were alone in our Conceptions, and divided from every thing else: And this Unity is either fimple or compound; for we say one Grove, as well as one Tree, and one Army, as well as one Soldier.

2. What

2. What is Union?

A. It is that whereby two or more Things either really become one, or are consider'd as such: And therefore Union may be distinguish'd into real and mental.

Q. This is plain; but is not real Union likewise distinguish'd into seve-

ral Kinds?

A. Yes; it is either natural and necessary, as between a Tree and its Root; or accidental, as when two Nuts grow together; or artificial, as a Mixture of Wine and Water.—Again, real Union is consider'd as corporeal, spiritual, or human. By the first is meant the Union of Bodie, which is made by blending, compounding, fastening them together, or any other Means; as Drugs in a compound Medicine, a Bundle of Sticks, &c. Spiritual Union, or that of Minds, is either intellectual, by mutual Conscipuings

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may Book ousness of each other's Thoughts, or a Likeness of Sentiments; or it is meral, by mutual Love or Friendship; or supernatural, as it may relate to God and Religion. Human Union is that of an animal Body with a Spirit to constitute a Man; but how this Union is effected is entirely unknown to us, and must be resolved into the Appointment of the All-wise Creator.

2. What is mental Union?

A. It is when feveral Things, which are really distinct and different, are consider'd as one. Thus a vast Variety of Thoughts as well as Words may be consider'd as making up one Book or Treatise.

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CHAP. VI.

Of ACT and POWER.

2. Y OU mention'd two other abfolute Affections of Being, call'd All and Power; what is the

Meaning of them?

A. All and Power may be diftinguish'd three Ways. I. As actual Being is distinguish'd from potential, or a Power to be: Thus a House already built differs from a House which it is merely posible may be built one time or other. 2. As actual Doing or Action is diftinguish'd from a Power to do: So the putting a Body in Motion differs from the Power of moving it. 3. As actual Suffering or Paffrom is diftinguish'd from a Power to Suffer: So the actual Motion of a Body is different from its Mobility a Power to be moved.

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2. In what Sense do you here

fpeak of Action and Poffion?

A. By Action I mean the Exercise of a Power to do, and by Passion the Exercise of a Power to Suffer: But let it be observed, that the Words Passion and Suffering are here used to signify merely the receiving the Act of the Agent or Doer by the Patient or Sufferer. When a Horse rubs himself gainst a Tree, the Horse is the Agent, and the Tree is the Patient; or when a Father loves his Son, the Faher is the Agent, and the Son the atient, in this philosophical Sense of he Words.

2. Which are the most usual and

0-

roper Distinctions of Action?

A. Action is distinguish'd in anent or transfent, natural or atural, woluntary A. Action is diftinguish'd into imanent or transient, natural or superatural, voluntary or accidental, ne-Tary or free. P

2. What

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Q. What is the Meaning of thes Terms?

A. An immanent Action is tha which continues in the Agent, bein not directed to any other Object; when a Man loves himself. Trai Bent Action passes from the Agent some other Object or Patient; when a Man loves his Friend, whips his Horse. Action is natural s when Fire melts Butter; or fute hatural, as when the Prophet Elis made Iron fwim. When a M drives a Nail with a Hammer it is woluntary Action; but if he show Power mifs the Nail and hit his Fingers, mong Action would be accidental. Las So a A Action is necessary, as the Sun's lightening the Earth; or free, a Man can run or walk, fit or fa dine at Twelve or Two, or not at all, just as he pleases.

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onfifte 2. owers 2. Are all human Actions free?

A. The Will is always free in chusing what it likes, or refusing what it diflikes; and so when a Man wills and purfues any supposed Pleafure or Happiness, he is said to do this freely, though indeed the Action is necessary, and he cannot do otherwife: Hence it appears, that Neceffity is not univerfally and utterly inconfistent with Freedom and Liberty: But sometimes the Liberty of the Will is a Liberty of chufing or refusing indiffirently, a Freedom or Power to chuse or not to chuse among two or more Things proposed: o a Man may chuse to walk abroad or stay at home, to speak or to be lent. This is Liberty in the most proper Sense, and is absolutely inonfiftent with Necessity.

2. Is there no Distinction of owers, as well as of Adions?

P 2 A. Yes,

A. Yes, they are distinguish'd into feveral Kinds and Degrees. First Disposition is reckon'd an impersed Power of performing any thing, and the very lowest Degree: The next i mere Ability; and then a Habit of performing it with Ease and Certainty -Some Powers are corporeal, as tha of the Sun to warm the Earth; fom spiritual, as meditating, reasoning fome animal Powers, as eating waking, fleeping; fome buman, at fing from the Union of Mind an Body, as Senfation and Imagination some vegetative, as Nourishment a Growth.-Powers are also distinguish into natural, as that in Man of for ing a Voice; acquired, as Music; a infused, as the Power which the postles had of speaking many la guages.

2 Are not Powers frequently al

by other Names?

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A. Yes; those acquired by Exercife are properly call'd Habits: The Powers of natural Action in Animals, and artificial in Men, as Walking, Dancing, &c. are call'd Faculties; and in all inanimate Beings they are term'd Principles. The Powers of moral Action are also call'd Principles or Habits; as Justice, Temperance, oc.

CHAP. VII.

Of RELATIVE AFFECTIONS, or RELATIONS.

WHAT have you fay concerning relative Af-

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A. It has been observ'd before, at they arise from the Respect or elation that one Thing bears to anther, or to some Part or Property

of itself; and the same Relation is not confin'd to two Things, but may belong to many. Greatness and Smallmess, Paternity and Sonship, are relative Ideas.

2. Is there no Distinction made between the Terms of a Relation?

A. Yes; the Subject of a Relation, or the Thing spoken of, is call'd the Relate; and the other Term, to which the Subject relates, is call'd the Correlate. So if we speak of a Husband, he is the Subject or Relate, and the Wise is the Correlate; but if we are first speaking of the Wise, then she is the Relate or Subject, and the Husband is the Correlate.

2. How many Kinds of Relation are there?

A. They have been already divided into real and mental, but there are fome other Distinctions which is may be proper to mention. 1. They

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are natural: as the Relation between Father and Children, Root and Branches. 2. Moral, which are the Relations that the Actions of Men bear to a Law or Rule, either human or divine; and thus they are good or evil, lawful or unlawful. 3. Voluntary, or freely chosen; as between Friends, or Husband and Wife. 4. Accidental, as between Persons happening to become Neighbours, or between Trees growing in the same Grove. 5. Reciprocal, or synonymous, that is, of the same Name; as Cousins, Partners, Schoolfellows, &c. 6. Notreciprocal, or beteronymous, that is, of a different Name; as Master and Scholar, Father and Son, King and Subjects.

2. Which are the real Relations

you propose to explain?

A. They are Truth and Goodness, Whole and Part, Cause and Effect,

Subject and Adjunct, Time and Place, Agreement and Difference, Number and Order; all which, as here enumerated, shall be briefly consider'd.

CHAP. VIII.

Of TRUTH and GOODNESS.

2. W HAT is meant by Truth?

A. The Word is used in various Senses; as, 1. A Being is said to be metaphysically true, when it is perfectly conformable to the Divine Intellect or Idea, which is the grand Pattern of all created Beings. 2. A Thing may be said to be physically or naturally true; as, that is true Gold which has all the Properties requisite to its Nature. 3. There is logical Truth, as when Propositions are conformation.

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formable to the Things intended; and this is the most usual Meaning of the Word, the Propositions themselves being frequently call'd Truths; of which fome are probable, some improbable; fome necessary, others contingent, &c. 4. There is also ethical or moral Truth; which is when our Words and Actions agree with our Thoughts, and our Deeds with our Words: The first is call'd Sincerity, which is the Truth of the Heart; the latter Veracity, which is the Truth of the Lips.

2 What is meant by Goodness?

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A. This is likewise distinguish'd ino, I. Metaphysical, as when Things re agreeable to the Will of God, nd answer his Design: So he surissue ey'd the Works of his Creation, and w that they were good. 2. Physical natural, when Things come up to supposed Standard, or are capable of

of answering their natural End; so Air is good, when pure and fit for Breathing: And in this Sense artificial Things are also call'd good; as, a good Sword, a good House, a good Watch, &c. 3. Besides these there is Moral Good, which in general is the Conformity of our Thoughts, Words, and Actions to the Reason of Things, or the Law of God. When this regards our Neighbours or ourselves, it is call'd Virtue; but when it has a Regard to God, it is call'd Religion.

2. Is natural Good never used in any other Sense than what you have

mention'd?

A. Yes, it is sometimes used (with respect to sensible or rational Beings only) to signify whatever is pleasant or which tends to procure Pleasure of Happiness.

2. What do Ontologists call the

Union of Truth and Goodness?

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A. They call it Perfection; so that when they are united in any Being, that Being is said to be perfect: By which is meant, that it contains all its effential Parts and Properties without Blemish, comes up to its Standard, and is capable of answering all the Ends for which Nature has design'd it. Where any of these are wanting in any Degree, the Being is call'd imperfect.

2. Is not the Word Perfection ased

in different Senses?

A. Yes; absolute Perfection belongs to God alone. A Being may be call'd perfect in its own Kind, as a compleat Circle or Triangle; or comparatively, as a Picture, which so perfectly resembles the Original that no Unlikeness can be discover'd.—Again, a Being is perfect either as to Parts, or to Degrees; so a Colt is a perfect Horse with respect to his Parts,

Parts, but his Degrees of Growth, Strength, and Swiftness are imperfect, Or a Thing may be perfect as to Quantity and Measure, but imperfect in other Respects; so a Horse may be of full-grown Stature, but defective with regard to Beauty, Swiftness, or other Powers and Qualities .- Laftly, a Thing may be perfect with respect to Esentials, though not to Circumfantials also; as a Garden just laid out and planted may have all the offential Parts and Properties of a Garden, though it have not the circum-Mantial Perfection of Summer-Houses, Green-Houses, Water-Works, &c. -Sometimes the Word perfect is uled for excellent; as when we fay Men are more perfect than Brutes, and Spiris more perfect than Bodies.

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CHAP. IX.

Of the WHOLE and PARTS.

2 W HAT is the Meaning of the Words Whole and Part?

A. A Being is call'd a Whole, when we confider it as made up of feveral Parts properly united: So that Parts are Beings, which join'd together in a proper Manner conflitute the Whole.

2. Into how many Kinds is Whole

diftinguish'd?

A. Into four, viz. formal or metaphysical, effential or physical, integral or mathematical, and universal or intical.

2. What is a formal or metaphyfi-

al Whole?

A. It is the Definition of a Thing; which confifts of two Parts, the Genus and the Difference, that is, the general and

and the special Nature of the Thing defined.

Q. What is an effential or physical Whole?

A. It is applied to natural Beings, whose Essence is supposed to consist in Matter and Form. It is likewise usually made to signify the two essential Parts of Man, viz. Body and Soul But in a larger Sense it may include the Substance of a Thing, with all it essential Properties.

2. What is an integral or mathema

tical Whole?

A. An integral Whole is when the several Parts of it have a proper Existence of their own, and are really distinct from one another: Thus the Body of a Man is an integral Whole consisting of Head, Limbs, and Trunk all which have a real Existence is Nature, when separately consider This is call'd a mathematical Whole who

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A. Kind fined is the feren fical

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when applied to Number, Time, Dimension, or any thing that has proper Quantity.

2. What is an universal or logical

Whole?

A. It is a Genus including feveral Species, or a Species including feveral Individuals. Thus Animal is a Whole with respect to Man, Beast, Bird, and the other Species, which are its Parts; and Man is a Whole with respect to John, Thomas, William, and the rest of its Individuals.

2 Can these several Kinds of Whole be applied to Spirits as well as to Bo-

dies ?

A. Yes, except the mathematical Kind. For Instance: A Spirit is defined a thinking Substance; Substance is the Genus, and Thinking the Difference, which make up the metaphysical Whole. So Perception, Judgment, Reason, &c. are the essential Parts

Parts or Powers of a Spirit, which make it a physical or effential Whole When we speak of a whole Host of Angels, this is a Whole of the integral Kind: And when we conside Spirit as a Genus, and human Soul and Angels as the Species, that is a logical or universal Whole.

2. Is there any Distinction mad

of Parts? .

A. Yes, they are distinguish'd interpretation between both and between between

N. B. That which is a Whole one Sense may be a Part in another as a whole Page is a Part of a Boo —A Part of a Part is also a Part the Whole; as a Line is a Part of Book, because it is Part of a Page.

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CHAP. X.

Of CAUSES and EFFECTS.

WHAT is the Meaning of Cause and Esset?

A. A Cause in general is a Princie distinct from the Thing produced, d has some real Influence on its sistence. An Effect is that which is oduced, done, or obtain'd by the fluence of some other Being, which call'd the Cause.

2. Is a Principle and a Cause the

me Thing?

A. Not always, though frequentas will appear by confidering the ferent Kinds of Principles. 1. There Principles of Effence or Existence; which some are continent, as Herbs, etals, and Minerals are the Princies of Medicines, for they contain Salts, Oils, Spirits, Sc. extracted from

from them by the Chymists. Some are constituent, as the Stones, Timber, &c. of which a Building con fifts: But this Sense of the Word Prin ciple is not quite fo proper as the for mer. Others are caufal, and fue are all the Caufes hereafter enum 2. There are Principles Knowledge, which are either interna as Reason; or external, as Book And these are either natural, as Sens or supernatural, as Inspiration. T Principles of Knowledge are also fi ple, as Ideas; or complex, as Prop fitions. 3. There are Principles Operation; and these sometimes clude the operating Beings themselv as Painters, Warriors, &c. as we their natural and moral Powers, fupernatural Influences. - But ala all Principles, except the continent constituent, may be rank'd amo Social Causes of one Kind or other. rnt b

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2. How many Kinds of Causes are there?

A. The Distinctions of Causes are numerous; in general they may be divided as follows. 1. Into universal and particular: Thus the Sun, Earth, and Rain are the universal Causes of Plants, Herbs, and Flowers; but the seeds of each are the particular causes. 2. Into remote and proxime; as a Father is the proxime Cause of is Son, and a Grand father the reforte Cause. 3. Causes are call'd uniocal when they produce Effects of op 25 e same Nature with themselves, as 9 hen a Rabbet produces a Rabbet; elv equivocal, when the Effect is of a fferent Nature, as when a Man rites a Book, or makes a Pair of noes. 4. Causes are fole or folitary, alm ent when a Peffilence deftroys a City; mo focial, as when it is plunder'd and rnt by an Army, confisting of Of-

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ficers and Soldiers. Total and partial is a Diffinction near akin to the former. 5. Physical Causes are those which work by natural Influence; an moral, those which work by Persua fion. 6. Causes are ordinary, when they work according to the usua Course of Nature; and extraordinary when they are productive of Miracle—Thus much for Causes in general.

2. Which are the chief particula

Kinds of Causes?

A. Leaving out the common D finction of material and formal, (in Matter and Form are not proper Causes) they may be distributed in four Kinds, viz. emanative, efficient instructive, and suasive.

2. What is meant by an emanati

Caufe ?

A. It is that from which the Effe flows without any Action to produ it; as Heat from Fire, a sweet Sm fro ron prin

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rom Flowers, or Water from a

2. What is an efficient Cause?

A. It is that which produces the ffect by some Sort of allive Power rnatural Agency, and therefore most roperly deserves the Name of a ause; as when a Man rolls a great tone down a Hill, and the Stone eats down a Wall, and the Wall ills a Cow or Horse that lay under

Here are three distinct Causes, toducing three distinct Effects.—But scient Causes are divided into various inds. 1. They are either first or tond; and a Cause may be first ablately, which is applicable to God one; or first in its own Kind, as a ardener who plants Trees in his arden is the first Cause of their rowth, and his under Agents are and Causes. 2. They are distin-ish'd into principal, less principal, and

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The Architect is the principal Cause of building a House; the less principal are Bricklayers, Carpenters, &c. and the infirumental are Trowels, Hammers, Saws, Axes, & 3. Efficient Causes are internal or ex ternal, which Words need no Expla pation. 4. They may be exciting and disposing, as fine Fruit excites u to eat it; or compelling and confraining as when a Farrier gives a Horse Drench. c. A Cause is forced, when a Man to avoid a mad Do jumps into a Boat and overfets it; free, as when a Man finks a Veffel boring Holes in the Bottom of i 6. Efficient Caufes may be necessar as when Fire burns a Child that fa into it; or contingent, as when a Pe fon is kill'd by a Tile falling from House. 7. A Cause may be accide tal, as the Breaking of a Window throwing a Stone at a Bird; or

figning, when the Mischief is done on purpose. 8. Causes may be procuring or confirming, preventing or removing: Thus Medicines confirm or procure Health, and prevent or remove Difeases. 9. Creative, conservative, defructive, and several other Distinctions of Causes need not be explain'd; heir very Names describing them fufficiently.

2. What is meant by an instructive

Cause?

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la ing A. That which operates either by nanifesting the Truth, or directing he Practice; and accordingly it may e call'd manifestative or directive. In he Manifestation of Truth this Cause s sometimes filent, as a Book, a Map, Picture, &c. and sometimes vocal, s a Watchman tells us the Hour of he Night, and a crowing Cock the N t Approach of the Morning. In the Direction of Practice this Caufe is either either a Rule teaching us how to act. or a Pattern for our Imitation; or it this is a Guide, in which both Rule and A Pattern feem to be included.

2. What do you mean by a fua- for t

Five Cause?

A. It is fomething which works Liv upon the Mind of a voluntary Agent, as cal and inclines it to act, either by Inor Counsels, by Fear or Hope, or any of W other Motives. Suafeve Causes are 2. either personal or real: The personal ons o are the Persuader, Encourager, Commander, &c. and the real are the carce End or Defign, the Object, Opporcunity, &c. In a word, any Thing and i that tends to affect and perfuade the in ul Will may be properly call'd a fuafive Caufe. -Of this Sort of Caufes the Happ End or Defign is reckon'd one of the chief.

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2. What Name is usually given to

this last-mention'd Cause?

A. It is commonly call'd the final Cause, by which is understood that for the sake whereof any thing is done. For Instance, A Man labours hard for a Livelihood; in this Case his Labour is call'd the Means, so that the End is the Cause, and the Means the Effect. Victory and Peace are the final Causes of War.

2. Are there not various Distincti-

ons of final Causes?

A. Yes, but many of them are carce worth mentioning. The prinipal seems to be the Distinction of an ind into ultimate and subordinate: And nultimate End is either absolutely so, s the Glory of God and our own Happiness should be the End of all ur Actions; or it is ultimate in its own sind, as Knowledge is the chief End f Reading. Subordinate Ends are such

fuch as tend to something farther; as Knowledge is sought in order to practise.

2. Are there no other Kinds of Caules that are worth taking notice

of?

A. Yes, there are three, viz. a deficient Cause, a permissive Cause, and a Condition; though these have obtain'd the Title of Causes for want of a fitter Name.

2. What is meant by a deficient

Caufe?

A. When the Effect is in a great measure owing to the Absence of fomething that would have prevented it, the Cause is call'd deficient; so that it may be reckon'd a negative rather than a positive Cause. Thus the Wan of Rain is the deficient Cause of the withering of the Grass, and of the Dustiness of the Roads; and a Leas is the deficient Cause of a Ship's sink

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ing, or of Liquor's running out of a

2. What is the Meaning of a per-

miffive Cause?

A. A permissive Cause is that which removes Obstructions, and lets the proper Causes operate: And this Sort of Cause is either natural or moral. 1. A natural permissive Cause removes natural Impediments; fo the opening of the Window-Shutters is the Caufe of Light's entering a Room, and the letting loose a Rope is the Cause of a Boat's running adrift. 2. A moral permissive Cause removes moral Impediments or Prohibitions, and gives leave to act: Thus a Master is the permissive Cause of his Servant's going to a Horse-race, and so is a Geperal of his Soldiers plundering a City. The taking off an Embargo is the permissive Cause of a Ship's failing

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failing out of Port, which had been thereby detain'd:

Q. Why is a Condition rank'd a-

mongst these Causes?

A. Because it is a Sort of Cause without which the Effect is not produced. It is generally applied to something which is requisite in order to the Effect, though it has no actual Influence in the Production of it. Thus Darkness is a Condition without which we cannot see the Stars; and a hand-some Dress, and a Head uncover'd, is a Condition of being admitted into the King's Presence.

CHAP. XI.

Of SUBJECT and ADJUNCT.

2. WHAT is the Meaning of the next real Relations you mention'd, viz. Subject and Adjunct?

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A. What has been faid in the first Part of Logic (Chap. II.) where Sub-flances and Modes are treated of, may be consulted, but need not be here repeated. In this Place the Word Subject is rather considered as having accidental Modes than those which are essential; and these accidental Modes, or external Additions which adhere to the Subject, or Names and Denominations by which it is call'd, are what is here to be understood by Adjuncts.

2. Which are the most considerable Adjuncts of Actions or Appearan-

ces ?

A. They are what we call Circumflances, which include Time, Place, Light, Darkness, Cloathing, the Situation of other Things or Persons, with all the concomitant, antecedent, or consequent Events.

2. Do not Subject and Object fig-

nify the fame Thing?

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A. When we consider Things as the Subjects of Occupation, Operation, Thought, or Discourse, they are then properly call'd Objects; as Leather is the Subject or Object on which a Shoemaker works, about which he is busied, or of which he thinks or discourses.

2. Into what Kinds are Objects

diftinguish'd?

A. Into immediate, and remote; as the Words and Sentences of a Book are the immediate Object of a Student's Occupation; and the Ar, Science, or Doctrine taught by that Book is the remote Object. They are also distinguish'd into common and proper; as the Size, Figure, and Motion of Bodies are common Object of the two different Senses of Sight and Feeling; but Colours are proper to the Sight only, and Cold to the Feeling. Lastly, they are either material

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Man is the material Object both of Physic and Anatomy, and Dissection and Healing are the formal Objects of those two Sciences.

CHAP. XII.

Of TIME and PLACE.

A. Time, as confider d by Ontologists, is that Part of Duration which terminates the Interval of the Existence of Things; or it is what we call fuctoffive Duration. It is divided into aft, present, and future, (as has been before mention'd) and is usually measured by the Motion of some Bodies, which is supposed to be most regular, misorm, and certain. These are other the heavenly Bodies, as the Sun,

Moon, and Stars, which are natural con Measures of Time; or there are But Hour-Glaffes, Clocks, Watches, &c. mai which are artificial Measures. And gina thus Time is divided into Years, Place Months, Weeks, Days, Hours, Mi-Bod nutes, &c. and as it commonly refers Place to fomething that measures it, it is esteemed a relative Affection.

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A. It is the Position or Situation of the P Bodies; and it is frequently diffinguish'd into absolute and relative.

A. It is that Part of the supposed ith r infinite Void or Space which any Being fills up or possesses, consider'd em fimply in itself.

2. What is relative Place?

A. It is the Situation that any Beach a ing has with respect to other Bodie which round about it, which are supposed busine quiescent, or at Rest - We usually ver COD

conceive of Things in this Manner:
But if Space (as some Philosophers maintain) be only a Creature of Imagination, a mere Nothing, then all Place is properly relative, and if a Body existed alone it would have no Place at all.

2. Is Place applied to Spirits as well as Bodies?

A. Ubiety is a Term used to fignify ne Place of Spirits; though it must e confess'd we have no clear Idea ow they can have any proper Locay, Situation, Nearness, or Distance ith respect to Bodies, without changth respect to Bodies, without saying their very Nature, and making my quite other Beings than what The Ubiety of a Spirit, em quite other Beings than what erefore, can only properly refer to h a Part of the material World, Bedie which it has a more evident Conosel pushes, and on which it has a all ver of acting. When we say that con

God, the Infinite Spirit, is every where, we mean that he has an immediate and unlimited Consciousness of and Agency upon all Things, and that his Knowledge and Power extend to all Possibles, as well as to all actual Beings; for he knows and he can do whatfoever can be known or When we fay the Soul of Man is in bis Body, we mean that it has a Confciousness of the Impressions made on the Body, and can excite particular lar Motions therein at pleafure.-The Situation of Bodies in a certain Place is fometimes call'd a circumscription Presence; that of a Spirit by its Con sciousnels or Operation is term'd definitive or limited Presence; and the Omnipresence of God has been call his repletive Presence, because he fil Heaven and Earth, as the Scriptur expresses it. CHAR

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CHAP. XIII.

Of AGREEMENT and DIFFERENCE.
2. WHAT is meant by the Relations call'd Agreement and

Difference?

A. The Agreement and Difference of Things are Words which need no Explanation. They are found out by comparing one Thing with another, or the same Thing with itself at different Times and Places, or under different Circumstances or Considerations.

2 Into what Kinds is Agreement

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A. It is either real, that is, in Subance; or modal, i. e. in Modes, Proerties, or Accidents; or mental, that , such as is made only by our Coneptions.—An Agreement in Essence, luantity, or Quality, is call'd interal; as that in Causes, Essects, Ad-R 2 juncts,

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juncis, Names or Circumstances, is call'd external.—Agreement is total and perfect, where there is no Difference at all; or partial, where there is a Difference in some Respect.—An Agreement in Essence is call'd Sameness or Identity; but Agreement in Quality is properly call'd Likeness.

2. Is not Agreement in Quantity

fometimes call'd Samenes?

A. Yes, but more properly Equality: So five Shillings are faid to be the fame with a Crown, that is, equato it, as containing the same Quantity of Silver. But sometimes an Agreement in Value arises from the Difference of Quality compensating the Defect of Quantity; as a Guinea in Gold is equal to one and twenty Shillings in Silver.—Where there is no an absolute Sameness in Quantity, the Agreement is call'd Proportion: Se there is a Proportion between Six and Twelve Twelve, for one is the Half of the other; and between three Fours and Twelve, for they are equal.

2. In what farther Sense is the

An Word Sameness wied? ne-io

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A. Two or more Things may be faid to have the same general Essence or Nature; as Beafts, Birds, and Fishes gree in this, that they are all Animals: Or they are faid to have the ame Special Nature; as Trouts and Dysters agree in that they are Fishes. But individual or numerical Sameness f Nature or Effence can be afcribed o one and the fame Thing only; as Man of a hundred Years of Age is he same Individual that he was when Boy of fix, or a Youth of twenty. -There is another Distinction of ameness into material and formal. obacco is the fame Body materially hen it is dried and ground into Snuff, when it is green and growing in the Field:

Field; but it is not formally the same.

2. As Sameness bears different Senies, is not Likeness also diffinguish'd into several Kinds?

A. Yes; though Likeness or Similitude is chiefly applied to Qualities, yet it sometimes relates to Natures and Substances themselves; and it may be either total or partial.—Likeness is also in the same Kind, as one Egg is like another; or in a different Kind, as a Picture may be like a Statue, or as Poesy resembles Painting; which last Sort of Likeness is sometimes call'd Analogy.

2. Does not Analogy sometimes sig-

nify Proportion?

A. Yes; and we get the Idea of it by comparing two Quantities together, and confidering the Relation they bear to each other. In a Word, Proportion includes every Sort of Agree-

If the freement in Quantity, (except indifidual Sameness) whether it be Time, for the Magnitude, or Number; and thence diffinition of the Ideas of equal and unequal, reater and less, more or fewer, &c. Similibroportion may also be applied to any alities, Qualities that admit of Degrees of latures Difference, as Whiteness, Sweetness, and it Cold, Heat, Good, Evil, &c.

Like. 2. After thus explaining Agreement, as one what have you to say of Difference?

A. Let it be observed, that Differance is not here taken in a logical nting; Sense for the primary effential Mode some of any Being, which join'd to the Genus makes a Definition; but it includes every Distinction of one Thing from another.

2. Is not Difference divided into various Kinds?

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A. Yes; it is either real, (i. e. fubfantial) as one Substance differs from another; or modal, when it relates to

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Modes, Properties, or Qualities; or mental, when it is only made by the Mind.—N. B. The Difference between Modes or Properties is sometimes call'd real, because it is founded in the Nature of Things; and so is opposed to mental, which is made only by our Conceptions.

Q. Are there no other Divisions

of Difference?

A. Yes; Difference or Difagrament will admit of much the fame Divisions as belong to Agreement, which therefore needs not be repeated.

2. But is not the Disagreement of Things express'd by various Names?

A. Yes; a Disagreement in Subflance or Essence is call'd Diversity; in Quality, it is Dissimilitude; and in Quantity it is opposed to Samenes, and is then peculiarly call'd Difference. As it stands opposed to Proportion, it is call'd Disproportion; that is, where there there is no Proportion at all, as between Finite and Infinite; but the Word is frequently used in a more vulgar Sense, sometimes to signifyany great Difference between two Quantities or Numbers, as One is difproportionate to ten Millions; and fometimes it means that one Part or Adjunct of a Thing is too large or too small for the others; as a Man's Mouth or Nose may be disproportionate to his Face.—The chief or highest Kind of Disagreement is call'd Opposition, and there are reckon'd five Sorts of Oppofites.

2. Which are the Names of the

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Kinds of Opposites? A. I. Some are call'd Disparates, s Red, Blue, Yellow, &c. but thefe eem to be improperly reckon'd Opofites, fince they are only different pecies under the same Genus. 2. 0hers are relative Opposites, as Master and

and Servant; but neither can all Relatives be properly call'd Opposites, as two Friends cannot who agree in their Humours and Sentiments. 3. Contraries are a proper Kind of Oppofites, as bot and cold, white and black, 4. So are privative Opposites, as Sight and Blindnefs. 5. The last Kind are negative Opposites, or Contradictories; as Honour and Difhonour, Perfection and Imperfection.

N. B. Among Contradictories fome are express, and others implied; as a Square Circle is an express Contradiction, but a religious Villain is only an implicit one, meaning a Person who is religious in Words, but the reverle in Practice. - Observe also, that Contraries are call'd mediate when there's fome middle Quality or Medium which partakes of both the Extremes; as lukewarm between bot and cold: But where there is no fuch Medium they

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CHAP. XIV.

Of NUMBER and ORDER.

2 W HAT is the Meaning of Number and Order?

A. Number is a Manner of Conteption, whereby feveral distinct and separate Things are reckon'd together, and consider'd as more or fewer.

2. Is not an Unit or One a Num-

ber ?

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A. It is rather Part of a Number, for Number is made up of many Uuits put together; and therefore Number is a real relative Affection of Being, as it plainly denotes a Relation between two or more Beings or Ideas.—Number is call'd diferete Quantity, because its Parts are distinct a

as Magnitude is call'd continued Quantity, because its Parts are united.

.2. What is meant by Crder?

A. Our Idea of Order arises from considering one Thing as being before, together with, or after another; according to which it is said to be prior, simultaneous, or posterior.

2. Into how many Kinds is Order

distinguish'd?

A. Into five, viz. 1. The Order of Nature, as a Father is before his Son. 2. Of Time, as the Spring is before the Summer. 3. Of Place, as the Horse is before the Cart. 4. Of Dignity, as a Duke is before an Earl. 5. Of Knowledge, as we learn Letters before Syllables, and Syllables before Words.

Note, Things are faid to be together in Time, either when they begin together, as Fire and Heat; or when they co-exist with each other during

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fome Part of their Life, Time, or Being; as Socrates and Plate are faid to be Cotemporaries, though the former was born many Years before the latter.

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CHAP. XV.

Of MENTAL RELATIONS.

2. YOU have now gone through the real Relations of Being; what have you to fay concerning those that are mental?

A. It has been already observ'd, that mental Relations have no Foundation in the Nature of Things themselves, but arise merely from our Manner of conceiving them. These Relations therefore may be known by his Consideration, that if there were to intelligent Beings to conceive of them.

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them, fuch Relations could never have existed.

Q. Which are the chief Kinds of mental Relations?

A. They are pure abstracted Notions, Signs, Words, Terms of Art, and external Denominations.

Q. What do you mean by pure ab-

Aracted Notions?

A. They are what Ontologists call fecond Notions, fecond Intentions, mere Creatures of the Mind: But observe, it is not every Degree of Abstraction that makes a mental Relation. If we abstract the common Idea of a Man or Humanity from the particular Ideas that distinguish Thomas and Francis, this is an abstract Idea; though it is not a mere mental Relation, because it is Part of the real and absolute Idea of Thomas or Francis: But if we abstract this common Idea of Humanity yet sarther, by considering it as a special

cial Nature agreeing to several Individuals, and so call it a Species, this is a mental Relation; and so is the abstract Idea of Animal call'd a Genus. These and the like Ideas are form'd by a second Abstraction, and may therefore be call'd pure abstracted Notions; which, having no Reality or Existence in Things themselves, are properly term'd mere mental Relations.

Q. What is meant by Signs?

A. A Sign is that which represents to the Mind something besides itself, which is call'd the Thing signified.

2. Are there not various Kinds of

Signs ?

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A. Yes, the chief of which are the following.

1. Signs are natural, as Beard is of Manhood; or inflituted, is Baptism of washing away Sin, or is a Constable's Staff is a Sign of his Office, 2: Some are mere Tokens or Olidges, which do not at all reprefent

fent the Thing fignified, as the Rain. bow is a Token to affure us that the Earth shall not be drowned again. 3. Signs are antecedent, as the gathering of Clouds is of approaching Rain; or concomitant, as Shivering is of an Ague; or confequent, as a Funeral is of Death. 4. Another Distinction of Signs near akin to the former is into prognoftic, as a Hiccup with an intermitting Pulse are Prognoffics of Death; memorial, as a Funeral Ring is of a Friend deceased; and commonstrative, as a Tomb is of a Person buried there. . Signs are sometimes necessary and certain, as the Morning-Star is of the Rifing of the Sun; and fometimes contingent, or probable, as Prudence and Industry are probable Signs of a Man's thriving in the World.

2. Are not Words call'd Signs?

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A. Yes, and they may be reckon'd the chief Kind of all, as they are the most universal Signs of our Thoughts or Ideas. But though all Words and Names are Signs invented by the Mind, and fignify Things from the mere Appointment and Agreement of Men, and are therefore mental Relations; yet those are more eminently so which are call'd external Denominations, that is, Names given to Things upon Account of some Idea which the Mind affixes to them, raher than for any thing that really elongs to them; as if we fay, fuch Building stands on the right or the the left Side of the Road, these are mere pro- utward Denominations, which depend n turning one's Face this Way or nat. Of this Kind are technical fords, or Terms of Art, which are led to fignify the Manner of our onception of Things; as if I fay, a Hawk

a Hawk is a Species of Birds, the Word Species is a Logical Term of Art and may be call'd a mental Relation.

N. B. Besides these already mention'd, there are various symbolical Signs and Representations of Things invented and used by Artists; as the Characters of Algebra, Music, &c.

CHAP. XVI.

1

Of the chief Kinds of Being.

2. INTO how many Kinds is Being usually diftinguish'd?

A. Into Substances or Modes; finite, o infinite; and natural, artificial, or mora 2. What Sort of Being are call

Substances, and what are Modes?

A. Every Being that may be confider'd as substituting of itself, is call' Substance; as an Angel, a Man, Horse, a Tree, a Stone, an Apple But when we consider it as substitution by means of some other Being to which

which it belongs, it is then call'd a Mode; as Length, Colour, Shape, Wisdom, Roughness, Smoothness, &c.

2. Can Modes be properly call'd

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A. When we give them that Name, we only mean that they have a real Existence in Nature; though this indeed is denied by some Philosophers, who from thence are call'd Nominatists, as those who maintain the contrary Opinion are call'd Realists. It must be granted, however, that Being does not belong to Modes in so full and strong a Sense as it does to Substances.

2. How many Kinds of Substances

ue there?

A. Only two that we know of, viz. Material and Intelligent; that is, ither Bodies or Spirits: But the Subtance of Spirits is of so fine and sub-

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tle a Texture, as not to be the Object of our Senses.

2. How many Kinds of Modes are

there?

A. They are distributed into various Kinds, the chief whereof have been enumerated and explain'd in Logic, (Part I. Chap. II.) to which we refer the Reader.

CHAP. XVII.

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Of FINITE and INFINITE Beings.

2. W HAT is meant by the next Diffinction of Beings into

finite and infinite?

A. Finite Beings are those which are limited or bounded, either with respect to their Natures, Parts, Quantity, Qualities, Powers, or Duration But those are infinite which are unlimited, or have no Bounds.

2. Are all Substances either sinh or infinite?

A. Yes

A. Yes, either in respect of their Quantity, or of their Powers. Created Spirits are said to be finite, as well as Bodies; not as to Quantity, for we have no Idea of their Dimensions, but as to their Qualities, their Knowledge, their Goodness, and all their Operations. They are allow'd, however, to have an unlimited Duration with regard to the Future, though not with regard to the Past; that is, they may have no End, though they had a Beginning: And this Duration is usually call'd Immortality. - We commonly call Space infinite, which some Philosophers will not allow, making it a mere Nibility, or the Limit of Existence, as Existence may be faid to limit Nihility.

2. Are all Modes either finite or

infinite?

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Yes

A. No, some cannot be call'd either; for though we can say finite or in-

infinite Knowledge, Patience, Length, Breadth, &c. yet we cannot fay a finite or infinite Colour, Roughnes, &c.

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2. How is God faid to be infinite?

A. With respect to his Essence, his Duration, or his Attributes. The Infinity of his Essence is his Immensity or Omnipresence: The Infinity of his Duration is his Eternity, without Beginning and without End: The Infinity of his Attributes implies that his Knowledge, Power, Holiness, Goodness, &c. are infinite, that is, every way perfect in the most absolute Sense.

N. B. There is no Medium between Finite and Infinite; for what we call Indefinite is only that of which

we know not the Limits.

CHAP. XVIII.

Of NATURAL, ARTIFICIAL, and
MORAL Beings.

2 IN the last Place you distinguish'd Beings into natural, moral, and

artificial; what is the Meaning of

those Words?

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A. Natural Beings are those which have a real and proper Existence, and are consider'd as form'd and appointed by God the Creater; as Spirits, Bodies, Men, Beasts, Birds, Fire, Air, Water, Light, Sense, Reason, &c. For though some of these are produced by others, as Animals produce their own Species, yet God is properly the Author of them all, either immediately, or by the Laws of Nature he has ordain'd.

2. Which are artificial Beings?

A. Those which are made by the Skill, Contrivance, and Operations of Men; as Houses, Pictures, Garments, Paper, Propositions, Arguments, Scinces, Books, &c.

2. Which do you call moral Be-

ngs?

A. Those

A. Those which relate to the Man ners, Conduct, and Government of intelligent Creatures, endued with Freedem of Will, and under Obligations to particular Actions of Duty. Thus Law, Virtue, Vice, Sin, Righteousnels, Justice, Injustice, Reward, Punishment, &c. 'are call'd moral Beings; but under this Confideration they are only modal .- In this Manner new Names might be given to different Beings, by calling them political, mathematical, theological, medicinial, &c. as they are treated of in the feveral Sciences: But these had better be call'd different Ideas than Beings; as Rebellion, Allegiance, Treason, &c. are political Ideas; Length, Breadth, Ge. are mathematical; and Holinels, Repentance, Salvation, &c. are this logical. 3 IY 65

FINIS.